

MILCOR MANUAL

FIREPROOF BUILDING PRODUCTS



MILCOR STEEL COMPANY

MILCOR STEEL COMPANY

9-8

MILCOR

METAL LATH AND ACCESSORIES

THE COMPANY

The Milcor Steel Company is the foremost national manufacturer of "Firesafe" sheet metal products, largely consumed by the building industry. Constant improvement in design, materials, workmanship, and methods of production has marked the company's progress, until today Milcor Products are accepted nationally as standards of quality.

DIVERSIFIED LINE OF PRODUCTS

In addition to the line of Metal Lath, Plastering Accessories and Metal Trim, including Casings, Stools, Metal Bases, etc., described in this catalog, the Milcor Steel Company is among the largest manufacturers making a complete line of metal building products.

MANUFACTURING AND DISTRIBUTING FACILITIES

The Milcor Steel Company's plants consist of over a million (1,000,000) square feet of floor space and its properties cover forty (40) acres of land. In addition to its main com-

paratively new plants in Milwaukee, Wisconsin, and Canton, Ohio, equipped with modern machines, there are plants in Chicago, Illinois, Kansas City, Missouri, and La Crosse, Wisconsin. Sales offices are maintained in all principal centers. Warehouses are also maintained in Atlanta, Ga., Rochester, N. Y., and New York City.

CATALOGS AVAILABLE

(Size 8½x11 inches to fit filing cabinet.)

No. 20-G "The Milcor Manual"—a complete catalog on metal lath and allied products, including standard architectural specifications for "Firesafe" construction.

No. 29 "Roofing and Siding Manual."

No. 35-A "Milcor Furnace Pipe and Fittings."

No. 37-M "Milcor Metal Ceilings and Walls"—Illustrating and describing many of the attractive designs of Milcor Metal Ceiling and Walls.

No. 38-C "Milcor Steel Ceiling and Walls" contains many designs of "Perfect-fit" Ceilings and Walls manufactured by the Canton, Ohio, Plant.

No. 40-A General Line Catalog.

No. 100-B "Milcor Metal Trim."

MILCOR PRODUCTS—SPECIAL FEATURES

EXPANSION WING FEATURE

One of the outstanding features of Milcor Lathing Accessories, protected by patent, is the expanded metal lath wing which forms an integral part of the corner bead, picture mould, base screed, metal casing, and other products. The wings of various widths are formed of 3/8-inch diamond mesh expanded metal lath.

The advantages over the older types of plastering accessories are apparent:

(1) The network of the expanded metal wings assures keying of the plaster close up to the base of the exposed metal member.

(2) There is a definite economy in labor due to the simplicity of erection—these products can be wired, stapled, nailed or spotted, as best adapted to the particular type of wall construction, without the use of clips.

WIDE RANGE OF MATERIALS

Milcor Products as specified under each item are furnished not only in various weights of metal to adequately adapt them to a variety of spans and uses, but they are made as well in a wide range of selected metals and protective finishes.

Painting—All black metal lath is painted after cutting, expansion and heat treating, with Milcor Special Elastic Asphaltum Paint.

Galvanizing—All galvanized sheets are tight

coated with new, pure zinc spelter before cutting and expansion.

Sheet Steel—Products so specified are cut from the highest grade of carefully inspected prime open-hearth sheet steel, either painted or galvanized as noted.

Copper Alloy Steel—The peculiar ability of copper alloy steel to resist corrosion is well known. Milcor "Copper Alloy" is of standard quality, carefully controlled for uniformity in production.

Products are furnished in Copper Alloy Steel either painted or galvanized as noted.

Inland Pure Iron, Armco Ingot Iron and Toncan Iron—Milcor Products are made in Inland Pure Iron, made from Quality Materials, Armco Ingot Iron, the purest iron made, and Toncan Iron, famous for its corrosion-resisting qualities. The superiorities of these metals have been proved beyond any doubt.

Products are furnished in Inland Pure Iron, Armco Ingot Iron and Toncan Iron either painted or galvanized as noted.

Anaconda Pure Copper—Under extreme conditions, where destructive acid fumes, salt air or other abnormal atmospheric attack is apt to exist, pure Anaconda copper is frequently used. This copper has great tensile strength and stiffness in addition to its value as positive resistance to corrosion.

Products so noted are available, cut from pure 16-oz. cold rolled Anaconda copper.

Pure Zinc—Products so noted are available, cut from pure zinc Nos. 11 and 12.

LABELS

Every bundle of Milcor Lath is conspicuously labeled with a distinctive metal tag vouching clearly for weight and particular metal used. Thus verification of specification requirements is easily insured.

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Send Inquiries to

MILCOR STEEL COMPANY

So. 41st & W. Burnham Sts., Milwaukee, Wis.

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CANTON, OHIO

CHICAGO, ILL. KANSAS CITY, MO. LA CROSSE, WIS. ATLANTA, GA. ROCHESTER, N. Y.
NEW YORK, N. Y.

KUEHN'S SPECIALMESH

A FINE MESH LATH FOR WALLS AND CEILINGS

NOTE THESE FEATURES THEY ARE IMPORTANT

(1) Scientifically Designed Mesh

Tests show this size mesh to give the most positive plaster grip.

(2) Positive Rigidity

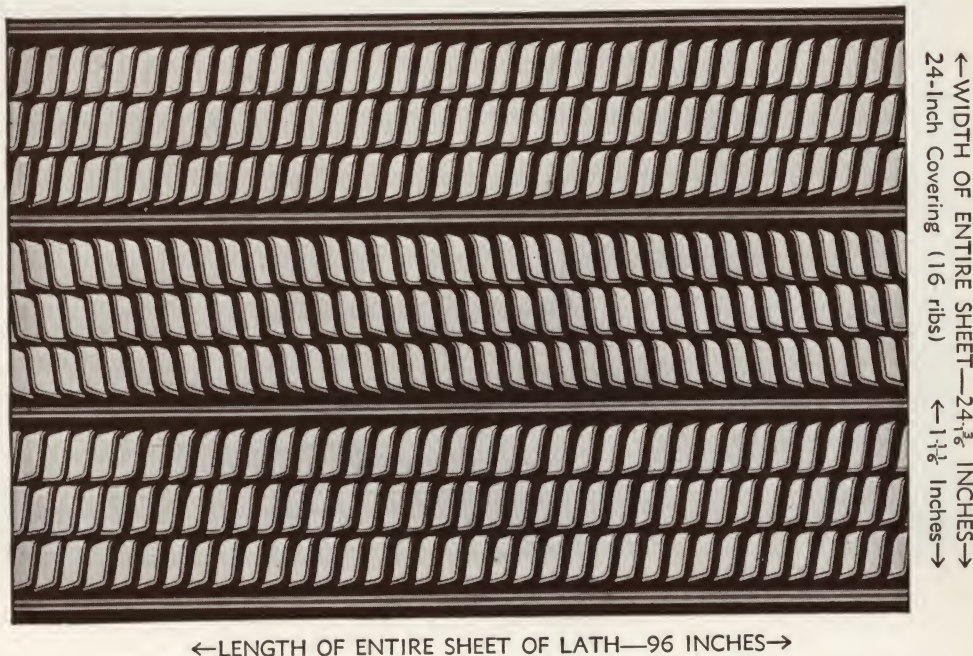
There are 16 ribs to a sheet of Kuehn's Specialmesh, which are corrugated to make them doubly rigid.

(3) No Plaster Waste

It is practically impossible to waste plaster (as ordinarily applied) by forcing an unnecessary amount through Kuehn's Specialmesh.

(4) Easy to Apply

It has no sharp edges to lacerate the lather's hands.



DESCRIPTION

GENERAL CHARACTERISTICS

Kuehn's Specialmesh is a new rib lath specially adapted for interior walls and ceilings. The meshes are so formed that in plastering the slightest pressure of the trowel completely imbeds the lath, and due to the small mesh, waste of plaster is eliminated. The longitudinal stiffening ribs are $\frac{3}{8}$ inch wide, spaced 1 $\frac{5}{8}$ inches on center and are

connected at $\frac{1}{4}$ -inch intervals by strands. These strands, in turn, are strongly reinforced at their junctures by stiffening members (two between each pair of ribs). All sheets are squared on both ends.

Kuehn's Specialmesh is scientifically designed to incorporate the best features of every type of such lath made, and to offer entirely new advantages.

RECOMMENDED WEIGHTS FOR MAXIMUM SPACING OF SUPPORTS (lbs. per sq. yd.)

Weights recommended	Distance Between Supports			
	Walls		Ceilings	
	Nailed on, in.	Tied on, in.	Nailed on, in.	Tied on, in.
2.75	16	16	16	12
3.0	19	19	19	16
3.4	19	19	19	16

SPECIFICATION DATA

SHEET SIZE

24x96 in., packed 9 sheets (16 sq. yds.) per bundle.

MATERIALS AND WEIGHTS (lbs. per sq. yd.)

Note: For complete description of materials, finishes, etc., see page 2.

STEEL, PAINTED—2.75, 3.00, 3.40.

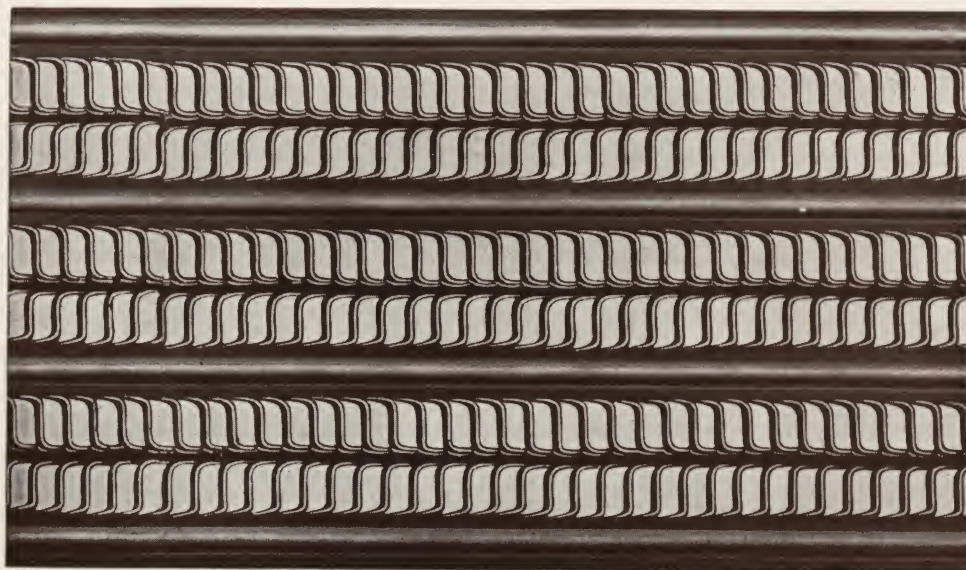
STEEL, GALVANIZED—3.40.

COPPER ALLOY STEEL, PAINTED—3.40.

INLAND PURE IRON, ARMCO INGOT OR TONCAN IRON, PAINTED—3.40.

STAY-RIB METAL LATH ·· No. 1

MILCOR



DESCRIPTION

No. 1 Stay-Rib Lath is ideally adapted for interior plaster (especially ceilings).

It is designed for maximum rigidity and, due to its added metal surface, unusual economy of material—an adequate key, however, is assured. The longitudinal stiffening ribs are $\frac{1}{2}$ inch wide, spaced $1\frac{3}{4}$ inches on center inter-connected at $\frac{1}{4}$ -inch intervals by strands. These, in turn, are strongly reinforced at their centers by a stiffening member.

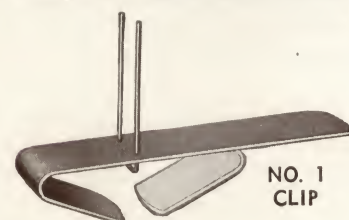
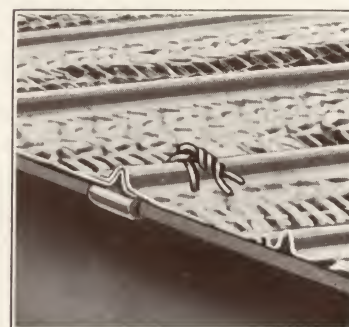
For both ceiling and wall plaster reinforcement, Milcor Stay-Rib No. 1 is unusually satisfactory. The rigidity of its rib and the character of its expanded design are factors in preventing plaster from falling during application. For suspended ceilings, Stay-Rib No. 1 saves money because it is exceptionally stiff and rigid. Fewer supporting runner channels and less labor are required because the spacing can be made much wider without impairing safety.

NO. 1 MILCOR METAL LATH CLIPS

Used with No. 2 Stay-Rib Metal Lath (see opposite page).

Milcor Lath Clip No. 1 is made in two parts: A flat metal strip and a strong "U" shaped tie wire. One end of the strap is formed into a hook shape at the factory, the other end is clinched around the flange of the beam on the job.

The photo below shows Stay-Rib Lath secured to I-Beam with the Milcor Metal Lath Clip. Note method of twisting wires.



NO. 1
CLIP

SPECIFICATION DATA

SHEET SIZE

24x96 in., packed 9 sheets (16 sq. yds.) per bundle.

MATERIALS AND WEIGHTS (lbs. per sq. yd.)

Note: For complete description of materials, finishes, etc., see page 2.

STEEL, PAINTED—2.75, 3.00, 3.40, 4.00.

STEEL, GALVANIZED—3.40, 4.00.

COPPER ALLOY STEEL, PAINTED—3.40.

INLAND PURE IRON, ARMCO INGOT OR TONCAN IRON, PAINTED—3.40, 4.00.

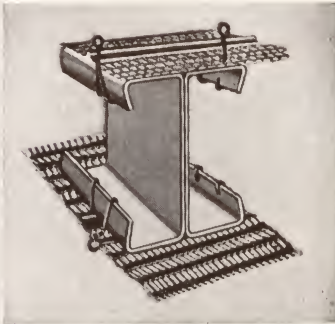
RECOMMENDED WEIGHTS (lbs. per sq. yd.)

Weights recommended	Distance Between Supports			
	Walls		Ceilings	
	Nailed on, in.	Tied on, in.	Nailed on, in.	Tied on, in.
2.75	16	16	16	16
3.0	19	19	19	16
3.4	19	19	19	19
4.0	19	19	19	19

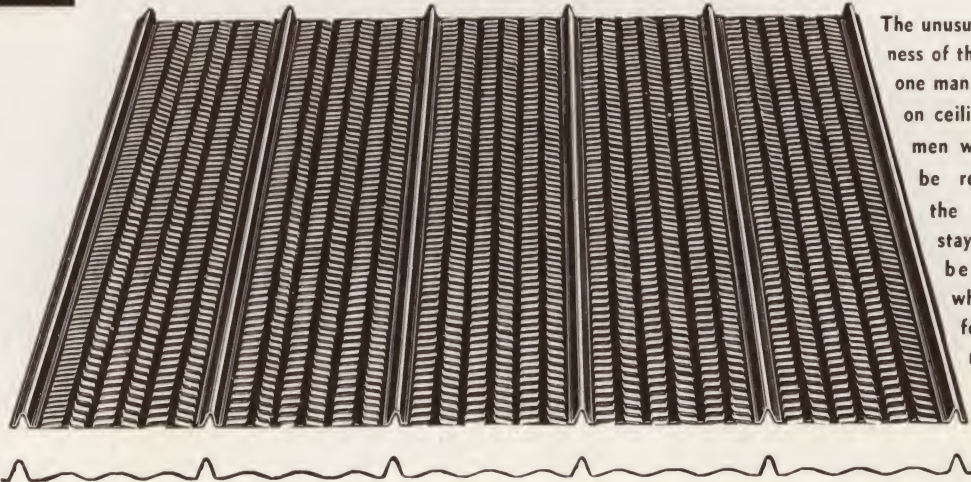
NO. 2 MILCOR METAL LATH CLIP

No. 2 Clip with design to facilitate the use of Stay-Rib Metal Lath in connection with metal lumber. This clip saves time and labor and insures maximum safety and perfect workmanship. The prongs are hooked over the edge of the metal lumber and twisted until the lath is securely fastened.

Weight of No. 2 Clip per thousand —9 lbs. Packed in cartons of 1000.



NO. 2
CLIP



The unusual lateral stiffness of this lath enables one man to put a sheet on ceilings where two men would ordinarily be required. Note the angle of the stays or strands between ribs which accounts for a stiffness not possible with diamond mesh lath.

DESCRIPTION

No. 2 Stay-Rib has 3/8-inch heavy longitudinal ribs spaced 4.8 inches on center with five stiffening members between ribs forming adequate reinforcement for the connecting strands spaced at 1/4-inch intervals.

It is ideal for all purposes where a self-furring lath is required.

Due to the strength and rigidity of the ribs, this lath effects very definite economies in both labor and material on furred or suspended

ceilings where wide spacing of supporting cross channels is possible.

It is used extensively without supporting furring, for ceilings attached directly to the joists beneath steel dome reinforced concrete construction. Also ideal for both ceilings and reinforcement for floor slabs in standard bar joist floor and roof construction and for both hollow and solid plaster partitions in conjunction with metal studs or channels.

RECOMMENDED WEIGHTS (lbs. per sq. yd.)

Weights recommended	Distance Between Supports			
	Walls		Ceilings	
	Nailed on, in.	Tied on, in.	Nailed on, in.	Tied on, in.
3.0	24	24	19	19
3.4	31 1/2	31 1/2	24	24
4.0	31 1/2	31 1/2	24	24

SPECIFICATION DATA

SHEET SIZE

24x96 in., packed 9 sheets (16 sq. yds.) per bundle.

MATERIALS AND WEIGHTS (lbs. per sq. yd.)

Note: For complete descriptions of materials, finishes, etc., see page 2.

STEEL, PAINTED—3.00, 3.40, 4.00.

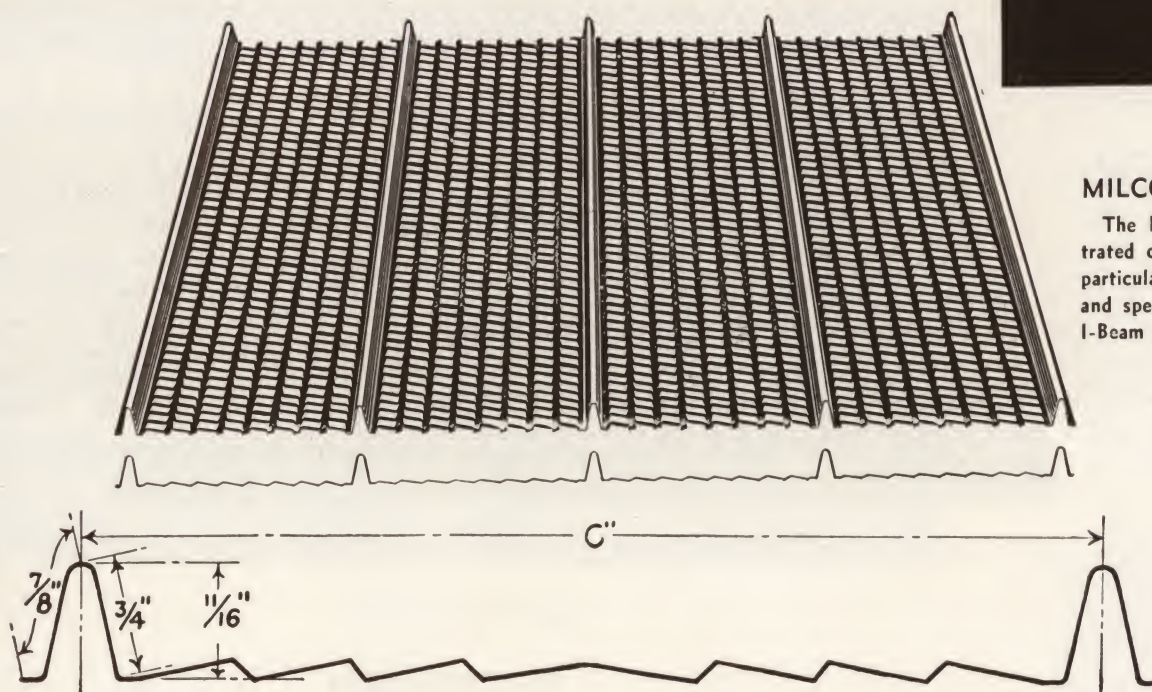
STEEL, GALVANIZED—3.40, 4.00.

COPPER ALLOY STEEL, PAINTED—3.40.

INLAND PURE IRON, ARMCO INGOT OR TONCAN IRON, PAINTED—3.40, 4.00.

3/4" STAY-RIB METAL LATH ·· No. 3**MILCOR****MILCOR RIB LATH CLIP**

The Milcor Rib Lath Clip illustrated on Page 4 is recommended particularly for safety, convenience and speed of erection where steel I-Beam construction is used.

**DESCRIPTION**

No. 3 (3/4 inch) Stay-Rib has 3/4-inch heavy longitudinal ribs spaced 6 inches on center, with seven stiffening members between ribs, forming adequate reinforcement for the connecting strands spaced at 1/4-inch intervals. The Milcor process of forming the heavy ribs is important. They are cold-drawn—not stamped—straight, true and uniform in shape with the sides of the rib sloped to insure maximum rigidity.

This lath is designed primarily as reinforcement for concrete floors and roofs, serving in addition as a form upon which wet concrete is poured. In this capacity it is most extensively used in connection with steel and bar joists. The lath may also be used in solid slab construction and may be curved to any required form. It is recommended that wherever curved sheets are required, the curving be accurately done **at the factory**.

Besides its adaptability for flat roof reinforcing, it is unexcelled in the construction of fire-safe pitched roofs, saw-tooth and monitor-type roofs and their adjoining wall or gable constructions.

No. 3 Stay-Rib is admirably adapted to the construction of solid plaster partitions where, due to the rigidity and reinforcing qualities of the ribs, no studs are required—the lath spans vertically from floor to ceiling.

Laid over wood joists, it is ideal as reinforcing for the concrete base for tile, terrazzo or composition flooring.

SPECIFICATION DATA**SHEET SIZE**

The covering width of each sheet is 24 inches. **Standard sheets are 4, 5, 6, 7, 8, 9, 10, 11, and 12 feet long.** Sheets of intermediate length can be furnished, cut to exact lengths without extra cost (except that of stock waste).

MATERIALS AND WEIGHTS (lbs. per sq. ft.)

Note: For complete descriptions of materials, finishes, etc., see page 2.

STEEL, PAINTED—.50; .60; .75.

STEEL, GALVANIZED—On order. .50; .75.

COPPER ALLOY STEEL, PAINTED—On order. .75.

INLAND PURE IRON, ARMCO INGOT OR TONCAN IRON, PAINTED—On order. .75.

CROSS SECTIONAL AREAS (sq. in. per ft. width.)

.50—.1235; .60—.1482; .75—.1977.

Milcor 3/4-inch Stay-Rib Metal Lath No. 3 is admirably suited for use in solid partitions, with ribs perpendicular to the floor. No up-right channels are required.

The lath sheets may be wholly or partially curved to any desired radius.



TABLE OF TOTAL SAFE LOADS

FOR CONCRETE SLABS REINFORCED WITH 3/4-INCH STAY-RIB NO. 3

Assumed Conditions

Loads given are Live Loads plus Dead Loads.

Stress in steel—16,000 lbs. per sq. in.

Stress in concrete (fc) variable as per table—given in pounds per square inch.

Ratio on Modulus of Elasticity of Steel (Es) to Modulus of Elasticity of Concrete (Ec) = n = 15.

Distance of Center of Gravity of lath above bottom of sheet—.163 of an inch.

Resisting Moment (R. M.)—given in inch pounds per foot width.

WL

Table based on moment of $\frac{WL}{10}$

Thickness of concrete, in.	Weight of slab, per sq. ft., lbs.	Weight of slab with 1/2 in. portland cement plaster on under side, lbs.	Weight of lath per sq. ft., lbs.	Resisting moment (R. M.) inch lbs. per foot of width	Stress in concrete in lbs. per sq. in. (fc)	Total Safe Loads in Pounds per Square Foot for Spans as Indicated in Feet								
						3 ft.	4 ft.	5 ft.	6 ft.	7 ft.	8 ft.	9 ft.	10 ft.	11 ft.
2	24	30	0.50	3230	540	299	168	108	75	55				
2	24	30	.60	3840	600	355	200	128	89	65	50			
2	24	30	.75	5050	690	468	263	168	117	86	66	52		
2 1/2	30	36	.50	4150	460	384	216	138	96	71	54	43		
2 1/2	30	36	.60	4940	520	458	258	165	114	84	64	51		
2 1/2	30	36	.75	6490	620		338	216	150	110	85	67	54	
3	36	42	.50	5084	410	470	265	170	118	87	66	52		
3	36	42	.60	6049	460	560	315	202	140	103	79	62	50	
3	36	42	.75	7960	550		415	266	184	135	104	82	66	55
3 1/2	42	48	.50	6000	380	555	312	200	139	102	78	62		
3 1/2	42	48	.60	7160	420		373	238	165	122	93	74	60	
3 1/2	42	48	.75	9440	490		490	315	218	161	123	97	78	65
4	48	54	.50	6960	350		363	232	161	118	91	72	58	
4	48	54	.60	8289	390		432	276	192	141	108	85	69	57
4	48	54	.75	10920	460		568	364	252	186	142	112	91	75

Note: This table should not be used unless under side of slab is given a coat of portland cement plaster 1/2 inch thick.

WEIGHTS OF LATH FOR CARRYING WET CONCRETE OVER VARIOUS SPANS

Weight of lath per sq. ft., lbs.	Allowable Spans for Wet Concrete Poured to Thickness Indicated				
	2-in. slab	2 1/2-in. slab	3-in. slab	3 1/2-in. slab	4-in. slab
0.50	3 ft. 3 in.	3 ft.	2 ft. 9 in.	2 ft. 6 in.	2 ft. 3 in.
.60	3 ft. 6 in.	3 ft. 3 in.	3 ft.	2 ft. 9 in.	2 ft. 6 in.
.75	4 ft.	3 ft. 9 in.	3 ft. 3 in.	3 ft.	2 ft. 9 in.

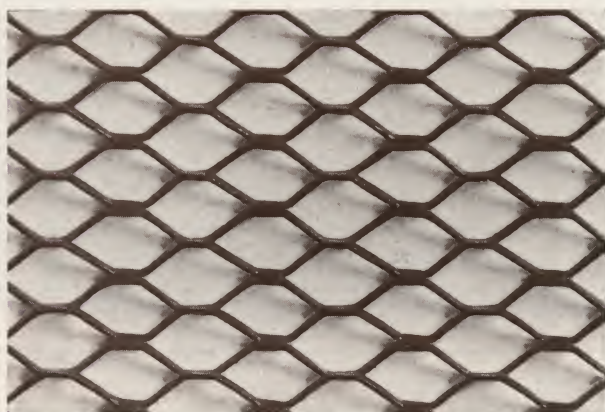
When longer spans than those given above are required, temporary supports should be used to maintain these maximum spacings.

NETMESH AND SMALMESH [EXPANDED DIAMOND MESH] METAL LATH

9-8

MILCOR

PLAIN



DESCRIPTION

Netmesh Metal Lath is $\frac{11}{16}$ inch by $\frac{9}{16}$ inch expanded Diamond Mesh produced by special machines and equipment, designed and built by Milcor engineers. Smalmesh is $\frac{9}{16}$ inch by $\frac{15}{16}$ inch expanded Diamond Mesh. Due to the close rigid mesh only a comparatively small amount of plaster is required to produce a perfect key with speed, ease and economy in plastering material.

Netmesh and Smalmesh are general utility laths ideally suited to the ordinary lathing need. They can be readily bent or formed for furred or ornamental members and for fireproofing of steel beams, girders, and columns.

SPECIFICATION DATA

SHEET SIZE

24x96 in., packed 9 sheets (16 sq. yds.) per bundle.
27x96 in., packed 10 sheets (20 sq. yds.) per bundle.
All sheets are squared on both ends.

MATERIALS AND WEIGHTS (lbs. per sq. yd.)

Note: For complete descriptions of materials, finishes, etc., see page 2.

STEEL, PAINTED—2.20, 2.50, 3.00, 3.40.

*STEEL, GALVANIZED—2.50, 3.40.

COPPER ALLOY STEEL, PAINTED—3.00, 3.40.

*INLAND PURE IRON, ARMCO INGOT OR TONCAN IRON, PAINTED—2.50, 3.40.

*INLAND PURE IRON, ARMCO INGOT OR TONCAN IRON, GALVANIZED—3.40.

*NO. 11 PURE ZINC—2.8.

*16-OZ. COPPER—3.0.

RECOMMENDED WEIGHTS (lbs. per sq. yd.)

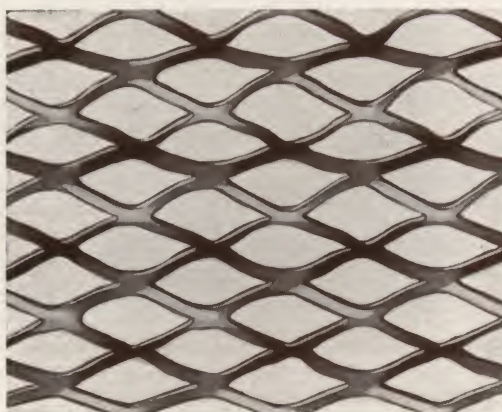
Recommended weights	Distance Between Supports			
	Walls		Ceilings	
	Nailed on, in.	Tied on, in.	Nailed on, in.	Tied on, in.
2.5	16	12
3.0	16	13½	13½	12
3.4	16	13½	16	13½

Note: Expanded Metal Lath weighing 2.2 lbs. per sq. yd. is regularly manufactured and available for use in partitions where Underwriter's Standards are not exacted; it is also suitable for corner reinforcements (Corner Lath).

*MADE IN 27 IN. WIDTHS ONLY.

CORRUGATED

(SELF-FURRING)



DESCRIPTION

Netmesh and Smalmesh Corrugated Metal Laths have the characteristics of standard mesh with corrugations added running longitudinally (the length of the sheet). These laths are self-furring—no furring strips are required. The corrugations act as furring and allow the plaster or stucco base to fill in between the lath and the supporting stud, sheathing or wall forming an adequate key.

These laths are ideal for exterior stucco work, either back plastered (spanning studs without sheathing) or applied directly over sheathing covered with waterproof paper.

SPECIFICATION DATA

SHEET SIZE

24x96 in., packed 9 sheets (16 sq. yds.) per bundle.
27x96 in., packed 10 sheets (20 sq. yds.) per bundle.
All sheets are squared on both ends.

MATERIALS AND WEIGHTS (lbs. per sq. yd.)

Note: For complete description of materials, finishes, etc., see page 2.

STEEL, PAINTED—2.20, 2.50, 3.00, 3.40.

*STEEL, GALVANIZED—2.50, 3.40.

COPPER ALLOY STEEL, PAINTED—3.00, 3.40.

*INLAND PURE IRON, ARMCO INGOT OR TONCAN IRON, PAINTED—2.50, 3.40.

*INLAND PURE IRON, ARMCO INGOT OR TONCAN IRON, GALVANIZED—3.40.

RECOMMENDED WEIGHTS (lbs. per sq. yd.)

OVER SHEATHING, ETC.—Studs 16 in. O. C., 2.50.

BACK-PLASTERED—Studs 16 in. O. C., 3.40.

FURLATH**DESCRIPTION**

Furlath is a $\frac{3}{8}$ -inch mesh diamond expanded self-furring lath designed for exterior stucco. It has the general characteristics of Netmesh (see page 8). The self-furring feature consists of staggered indentations or stools spaced $3\frac{1}{2}$ inches apart horizontally and 2 inches apart vertically, which hold the body of the lath $\frac{3}{8}$ of an inch away from the sheathing or wall. The deforming has a stiffening effect and assures complete embedding of lath with the first coat of stucco and locates the reinforcement centrally in a continuous sheet. Furlath should be secured to the sheathing at depressions or stools with six-penny nails.

SPECIFICATION DATA**SHEET SIZE**

24x96 in., packed 9 sheets (16 sq. yds.) per bundle.
27x96 in., packed 10 sheets (20 sq. yds.) per bundle.
All sheets are squared on both ends.

MATERIALS AND WEIGHTS (lbs. per sq. yd.)

Note: For complete description of materials, finishes, etc., see page 2.

STEEL, PAINTED—2.20, 2.50, 3.00, 3.40.

*STEEL, GALVANIZED—2.50, 3.40.

COPPER ALLOY STEEL, PAINTED—3.00, 3.40.

*INLAND PURE IRON, ARMCO INGOT OR TONCAN IRON, PAINTED—3.40.

RECOMMENDED WEIGHTS (lbs. per sq. yd.)

OVER SHEATHING, ETC.—Studs 16 in. O. C., 2.50.

BACK-PLASTERED—Studs 16 in. O. C., 3.40.

*Made in 27 in. widths only.

BIG-MESH**DESCRIPTION**

Success with stucco requires not only a correct plastering base, but proper reinforcement as well. This reinforcement must be such that the plastering operation will easily and effectively make it an integral part of the stucco slab.

With these requirements in mind Milcor Big-Mesh Stucco Lath has been designed essentially for stucco work applied either by hand or "gunite" machine. It is expanded into diamond meshes $1\frac{1}{2}$ x3 inches with heavy connecting strands.



Furring
Nail

Since reinforcement is the essential feature, furring is necessary. This is accomplished economically by the Milcor Furring Nail, $1\frac{1}{2}$ inches long, equipped with a spacing device held close up into the mesh angles, placing the wings so that the conveying strands rest on its top edge, $\frac{3}{8}$ of an inch out from the sheathing.

SPECIFICATION DATA**MATERIAL**

COPPER ALLOY STEEL, PAINTED.

SHEET SIZE AND WEIGHT (lbs. per sq. yd.)

48x96 in., 1.8 lbs., packed 10 sheets (35 $\frac{5}{9}$ sq. yds.) per bundle.

48x96 in., 3.6 lbs., packed 10 sheets (35 $\frac{5}{9}$ sq. yds.) per bundle.

All sheets are squared on both ends.

APPLICATION

Beginning at the top, apply with the long dimension horizontally. Bend sheets around all corners and angles. Lap sheets one full diamond at junctures. Space furring nails (staggered) not more than 10 inches O. C. vertically and 12 inches O. C. horizontally.

MILCOR SILVERCOTE

(INSULATING PLASTER BASE)

AND STEELKRAFT

9-8

MILCOR

INSULATING PLASTER BASE

This modern combination insulation and plaster base development consists of highly reflective, corrosion-proof insulation combined with Milcor Metal Lath—the recognized plaster base.

The surface of Silvercote consists of a mineral, homogeneous pigment polished into a silver-like sheen which reflects radiant heat and establishes exceptional insulation values. The surface possesses the following essential properties:

1. The surface is mineral and will not oxidize or corrode.
2. The surface is waterproof and cannot absorb moisture.
3. The surface is impervious to air filtration and non-conductive to electrical or thermal energy.
4. The surface is vermin proof.
5. The surface is not affected by alkalis contained in plaster or by any of the acids or gases encountered in the customary uses of thermal insulation.

This surface layer of 47-lb. bleached Kraft base is attached to a 90-lb. Kraft by a layer of asphaltum. This duplex moisture proof product is then attached to Milcor Metal Lath by staples.

WEIGHT OF MILCOR SILVERCOTE—Weight—337 lbs. per 1000 sq. ft. Bundled 10 sheets, 24x97 in., 160 sq. ft. to the bundle.



Milcor Silvercote possesses all of the required factors of an ideal reflective insulation combined with the known values of metal lath as a plastering base. The reflective type is the most efficient and scientific type of insulation. The Silvercote process of reflective insulation is the most practical and durable of this type. That combined with the unquestioned value of metal lath as a plastering base attached thereto gives Milcor Silvercote a standing in the insulation field above all others.

MILCOR STEELKRAFT

SteelKraft is a combination of special heavy paper backing and Netmesh, Smalmesh or Fur-lath to which it is attached. The paper backing is a combination of waterproof paper and absorbent paper held together by a layer of asphalt. The absorbent side is next to the lath. The advantages are the same as Milcor Silvercote except for the reflective insulating feature.

SHEET SIZE—24x96 in. Packed 9 sheets (16 sq. yds. per bundle). The paper backing is short on two sides to allow for approximately one inch lap of metal lath.



Plaster is easily applied to Milcor Silvercote. The mesh assures a perfect bond and the plaster is completely embedded in the lath.

MILCOR COLD ROLLED CHANNELS

Milcor Pressed Steel Channels are cold rolled and present a level surface on all three sides. They are accurately pressed at perfect right angles, uniform and straight their entire length.

MAXIMUM PERMISSIBLE HEIGHTS (NON-BEARING PARTITIONS)

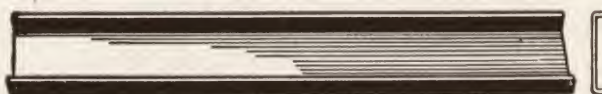
Note: Comparison of these maximum permissible heights with those of other fireproof partition materials will show the wide margin by which this construction exceeds.

3/4-IN. CHANNELS—2 in. thick solid—10 ft.;
2 1/2 in. thick solid—12 ft.

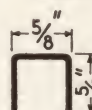
1-IN. CHANNELS—2 in. thick solid—12 ft.;
2 1/2 in. thick solid—16 ft.

1 1/2-IN. CHANNELS—2 1/2 in. thick solid—22 ft.;
3 in. thick solid—24 ft.

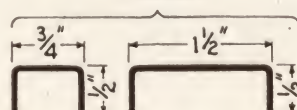
TWO 3/4-IN. CHANNELS—3 in. or more
hollow—24 ft.



Cubro



MILCOR



WEIGHT PER 1000 LINEAL FEET

5/8-IN. CUBRO CHANNELS—270 lbs.; 3/4-IN. CHANNELS—332 lbs.; 1-IN. CHANNELS—442 lbs.
1 1/2-IN. CHANNELS—552 lbs.; 2-IN. CHANNELS—645 lbs.

MILCOR

**Diamond-Mesh
Expanded**

Corner Lath

(FOR INNER CORNERS AND
CEILING ANGLES)



CORNER LATH



LATH STRIP

SPECIFICATION DATA

General Characteristics

Milcor Corner Lath consists of strips of Netmesh (see page 8) 3/8-in. diamond expanded lath with finished edges—not rough or ragged. Required as reinforcing over all re-entrant angles over wood or rib metal lath where inner angle bead is not used for the same purpose.

SIZES—Corner Lath have 3 and 4-in. wing width and are 8 ft. long. Lath Strips are 3, 4 or 6 ins. wide and 8 ft. long. Packed approximately 500 lin. ft. per crate.

MATERIALS—Sheet steel, painted or galvanized; copper alloy steel; Inland Pure Iron, Armco Ingot Iron or Toncan Iron, painted or galvanized.

No. 1 EXPANSION (2½") 5" WING, 24-GAUGE EXPANSION CORNER BEADS

SPECIFICATION DATA

No. 1 Expansion MATERIALS, WEIGHTS, ETC.

Note: For complete description of materials, finishes, etc., see page 2.

SHEET STEEL, GALVANIZED—26 gauge—230 lbs. per 1,000 lin. ft.; 24 gauge—300 lbs. per 1,000 lin. ft.; 6, 7, 8, 9, 10, 11 and 12 ft. long. Packed approximately 500 lin. ft. per crate.

INLAND PURE IRON, ARMCO INGOT OR TONCAN IRON, GALVANIZED—26 gauge—230 lbs. per 1,000 lin. ft.; 24 gauge—300 lbs. per 1,000 lin. ft.; 6, 7, 8, 9, 10, 11 and 12 ft. long. Packed approximately 500 lin. ft. per crate.

PURE ZINC—No. 11—290 lbs. per 1,000 lin. ft.; 8, 9, 10 and 12 ft. long. Packed approximately 500 lin. ft. per crate.

COLD ROLLED COPPER—16 oz.—230 lbs. per 1,000 lin. ft.; 8, 9, 10 and 12 ft. long. Packed approximately 500 lin. ft. per crate.

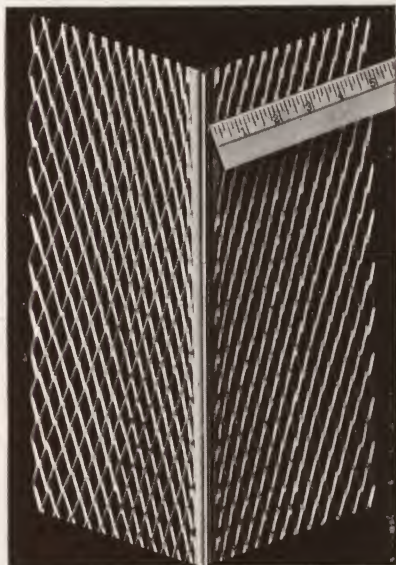
SPECIFICATION DATA

5-in. Wing MATERIALS, WEIGHTS, ETC.

SHEET STEEL, GALVANIZED—24 gauge—430 lbs. per 1,000 lin. ft. crated. Packed approximately 500 ft. per crate.

INLAND PURE IRON, ARMCO INGOT OR TONCAN IRON, GALVANIZED—24 gauge—430 lbs. per 1,000 lin. ft. crated. Packed approximately 500 ft. per crate.

LENGTHS—Same as No. 1 Expansion Corner Bead.



Milcor 5-in. Wing, 24 Gauge Expansion Corner Bead

Has expanded metal wings full 5 inches in width. Patent Nos. 1,419,232 and 1,482,600. Other patents pending.

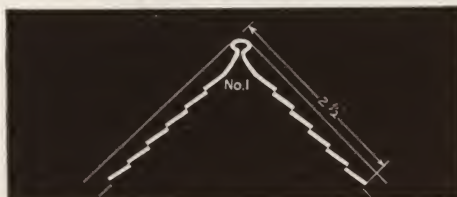


NO. 1 MILCOR EXPANSION CORNER BEAD FOR OUTER OR EXPOSED ANGLES

Fabricated from No. 26 gauge and No. 24 gauge tight coat galvanized steel or Inland Pure Iron, Armco Ingot and Toncan Iron, also pure zinc and cold rolled copper. Lengths of 6, 7, 8, 9, 10, 11 and 12 feet. Weight per 1,000 feet: No. 26 gauge, 230 lbs, crated; No. 24 gauge, 300 lbs. Packed 500 feet to the crate. Patents Nos. 1,419,232 and 1,482,600.

All Milcor Expansion Corner Bead packed in wooden crates.

Look for the lettering: "Milcor Expansion Corner Bead" which is stamped on the side of each bead. Demand the genuine. Refuse imitations



No. 1 Expansion

DESCRIPTION—The exclusive feature of Milcor Expansion Corner Beads is the use of Expanded Diamond Mesh reinforcement in the wings or webs instead of practically solid members as in other types. The wings of expanded metal permit keying the plaster right up to the bead. Every square inch of these wings reinforces the plaster. There are no smooth surfaces to which the plaster may or may not "stick." The result is effective reinforcement where it is most needed . . . and substantial assurance that the plaster corners will withstand much more than the average abuse.

Milcor Expansion Corner Bead can be wired, stapled, stuck or nailed to any kind of wall construction at lowest cost—no clips are necessary.

GENERAL CHARACTERISTICS—Narrow rounded nose. Standard wing width 2½ inches with finished edges—not rough or jagged. Obtainable (special) with one narrow wing—1, 1¼, 1½, 1¾, 2, 2¼, or 2½ inches wide. A general utility corner bead.



5-in. Wing, 24 Gauge Expansion

DESCRIPTION—Milcor 5-inch Wing, 24-gauge Expansion Corner Bead has the same advantages as No. 1 Expansion Corner Bead with the additional feature of full 5-inch wings of expanded metal.

There is economy due to saving in material and labor through the use of Milcor 5-inch Wing Expansion Bead on work where it would be necessary to use a strip of metal lath in connection with a narrow wing bead.

Columns are formed more easily . . . on beams, mullions, pilasters and corners the 5-inch wings save time and labor.

MILCOR Corner Bead Setter

The Milcor Corner Bead Setter makes precision corners certain and enables one man to set more corner bead of small nose type than two men can by old methods. Three spirit levels make this bead setter practical for either perpendicular or horizontal positions.

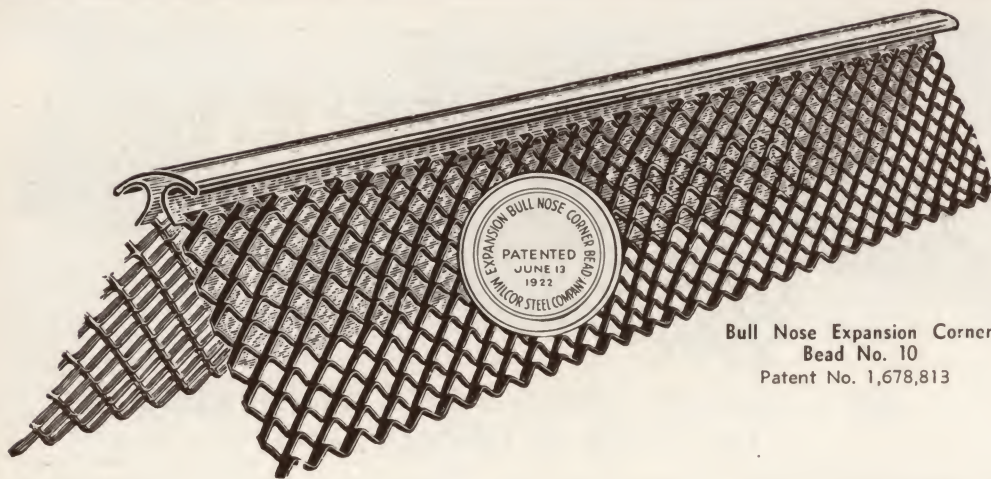


No. 10 BULL NOSE EXPANSION CORNER BEAD

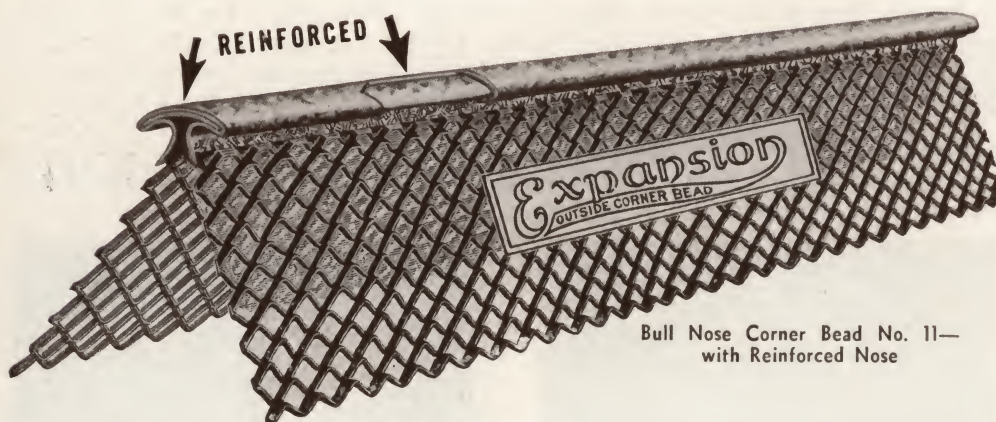
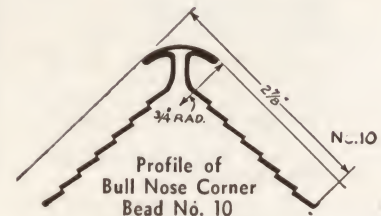
No. 11 (Reinforced) BULL NOSE EXPANSION CORNER BEAD

9-8

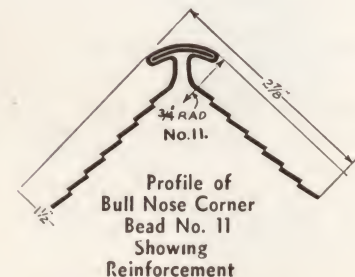
MILCOR



Bull Nose Expansion Corner
Bead No. 10
Patent No. 1,678,813



Bull Nose Corner Bead No. 11—
with Reinforced Nose



DESCRIPTION

GENERAL CHARACTERISTICS—No. 10 Bull Nose Expansion Corner Bead is ideal where broad, heavy, curved corners are desired for sanitary conditions, for pleasing appearance, and for supreme protection of plastered walls against heavy furniture, carts, wheel chairs and other objects which are moved frequently.

The Bull Nose Bead has the same advantages as the narrow nose, regular Expansion Corner Bead No. 1.

One-inch nose ($\frac{3}{4}$ -inch radius). Standard wing width $2\frac{3}{4}$ inches with finished edges—not rough or ragged. Specially adapted for hospitals, hotels, schools, institutions and

office buildings. Specify joints at miters cut with Milcor Coping Machine.

No. 11 Bull Nose Expansion Corner Bead is furnished with reinforced nose as shown in illustration above. This extra strength is desirable when particularly hard usage is anticipated. Reinforcing strip can be 26, 24 or 20 gauge sheet steel.

All Milcor Corner Beads are neatly and securely packed in heavy wooden crates. This ultra-safe packing precludes any possibility of damage in transit or on the job. The beads come to you precisely straight and true.

SPECIFICATION DATA

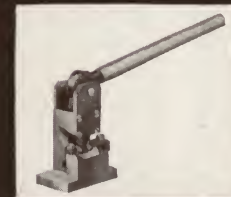
MATERIALS AND WEIGHTS—Note: For complete description of materials, finishes, etc., see page 2.

SHEET STEEL GALVANIZED—26 gauge—375 lbs. per 1,000 lin. ft., crated; 24 gauge—470 lbs. per 1,000 lin. ft., crated 6, 7, 8, 9, 10 and 12 ft. long. Packed approximately 500 lin. ft. per crate.

INLAND PURE IRON, ARMCO INGOT OR TONCAN IRON, GALVANIZED—26 gauge—375 lbs. per 1,000 lin. ft., crated; 24 gauge—470 lbs. per 1,000 lin. ft., crated. 6, 7, 8, 9, 10 and 12 ft. long. Packed approximately 500 lin. ft. per crate.

COLD ROLLED COPPER—16 oz.—470 lbs. per 1,000 lin. ft., crated. 6, 7, 8, 9, 10 and 12 ft. long. Packed approximately 500 lin. ft. per crate.

Note: Weights of No. 11 are heavier according to gauge of reinforcing strip used.

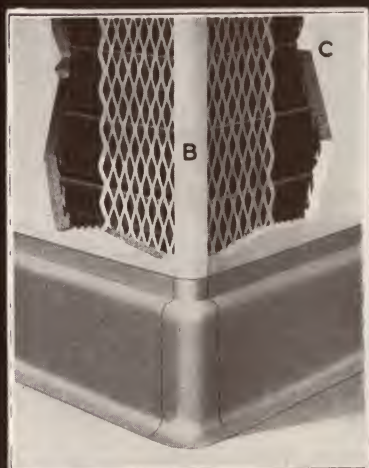
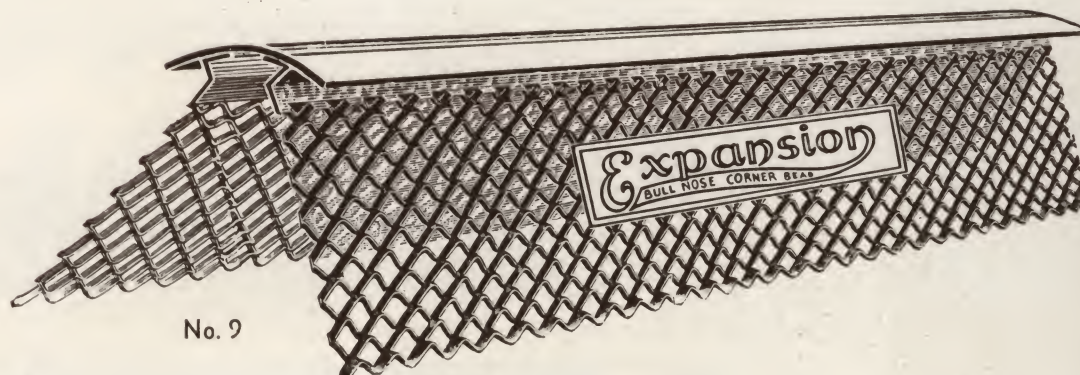
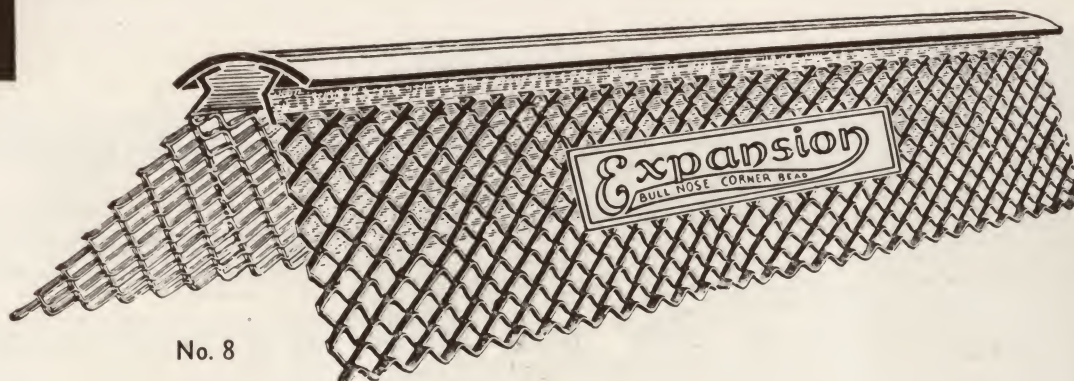
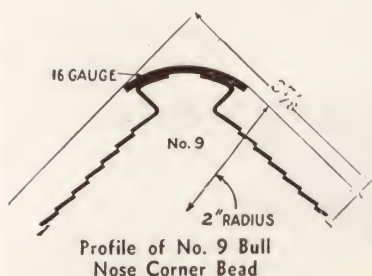
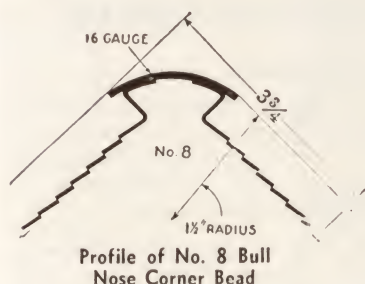


COPING MACHINE

A special portable Coping Machine, which can be set up anywhere on the job, is used to cut the broad Bull Nose for precise, tightly fitting corners.

NOS. 8 AND 9 BULL NOSE CORNER BEADS

WITH EXPANDED METAL WINGS



CORNER SHOWING BULL NOSE CORNER BEAD No. 8 IN POSITION IN PLASTERED WALL

With portion of base exposed to show: "B" — the exposed solid bull nose of the bead and its expanded metal; and "C" — Stay-Rib Metal Lath No. 1.

DESCRIPTION

GENERAL CHARACTERISTICS—No. 8 Bull Nose Corner Bead with expanded metal wings is for use where extra broad, heavy, curved corners are desired. The 16-gauge nose of the Bead has a face $2\frac{1}{8}$ in. in width, curved to a $1\frac{1}{2}$ -in. radius. 24-gauge Expanded Metal Wings of standard $2\frac{3}{4}$ in. width are spotwelded to the broad nose of the bead in such man-

ner as to reinforce the heavy face of the bead. This construction gives the No. 8 Bull Nose the same advantages as the regular Milcor Expansion Corner Bead in addition to the broad nose feature.

No. 9 Bull Nose Corner Bead is similar to No. 8 except that it has a face $2\frac{1}{4}$ in. wide, curved to a 2-in. radius.

SPECIFICATION DATA

MATERIALS AND WEIGHTS—Note: For complete description of materials, finishes, etc., see page 2.

SHEET STEEL — Tight-coat, galvanized, 16-gauge nose and 24-gauge expanded metal wing. No. 8—1,000 lbs. per 1,000 lin. ft., crated. No. 9—1,050 lbs. per 1,000 lin. ft., crated; 6, 7, 8, 9, 10 and 12 ft. long. Packed approximately 500 lin. ft. per crate.

INLAND PURE IRON, ARMCO INGOT OR TONCAN IRON, GALVANIZED —No. 8—1,000 lbs. per 1,000 lin. ft., crated. No. 9—1,050 lbs. per 1,000 lin. ft., crated; 6, 7, 8, 9, 10 and 12 ft. long. Packed approximately 500 lin. ft. per crate.

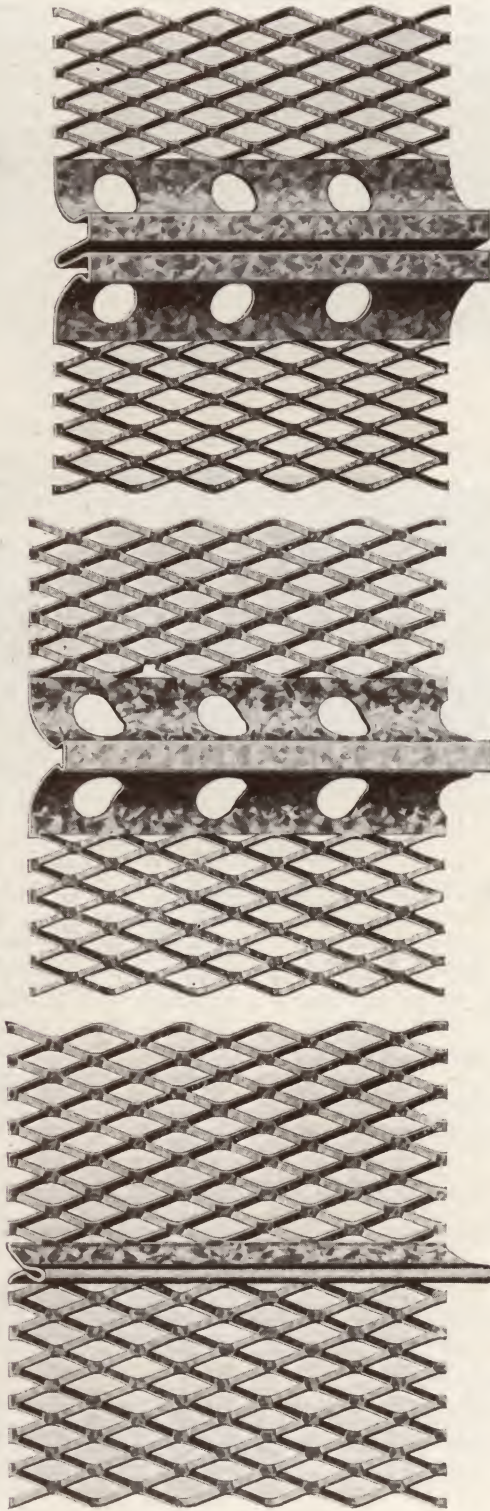
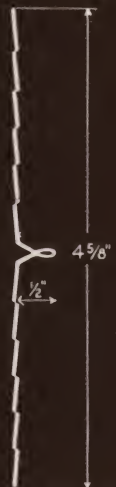
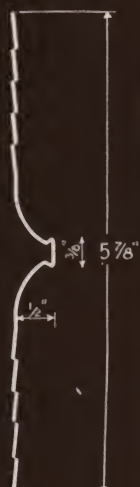
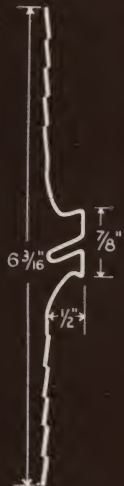
PICTURE MOULD AND BASE SCREEDS

Patents Nos. 1 419,232 and 1,482,600

WITH
EXPANSION WINGS

9-8

MILCOR



NO. 17 EXPANSION PICTURE MOULD

SPECIFICATION DATA

GENERAL CHARACTERISTICS—Milcor Picture Mould with Expansion Wings—No. 17 has a wide metal surface flush with the plaster line. It is permanent, sturdy and sanitary, forming a rigid, dependable support for the heaviest decorations. The Expansion Wing forms a strong plaster reinforcement both above and below the moulding.

MATERIALS, WEIGHTS, ETC.—SHEET STEEL, GALVANIZED; INLAND PURE IRON, ARMCO INGOT OR TONCAN IRON—26-GAUGE, GALVANIZED—400 lbs. per 1,000 lin. ft., 10 ft. long, crated. Packed approximately 500 lin. ft. per crate.

Note: For complete description of materials, finishes, etc., see page 2.

NO. 18 FLUSH BASE SCREED WITH EXPANSION WINGS

SPECIFICATION DATA

GENERAL CHARACTERISTICS—This is a new type Flush Base Screed with Patented Expansion Wings. It is characterized chiefly by the wide flat nose which forms a dividing strip between plaster and flush cement base. Expansion Wings reinforce both plaster and cement and guard against cracks.

MATERIALS, WEIGHTS, ETC.—SHEET STEEL, GALVANIZED; INLAND PURE IRON, ARMCO INGOT OR TONCAN IRON—26-GAUGE, GALVANIZED—300 lbs. per 1,000 lin. ft., 10 ft. long, crated. Packed approximately 500 lin. ft. per crate.

Note: For complete description of materials, finishes, etc., see page 2.

NO. 3 EXPANSION BASE SCREED

SPECIFICATION DATA

GENERAL CHARACTERISTICS—A firm, rigid metal dividing strip set between plaster and flush cement base with the advantages of 2 3/4-inch wings of strong mesh lath reinforcement against any possibility of cracks at juncture.

MATERIALS, WEIGHTS, ETC.—SHEET STEEL, GALVANIZED; INLAND PURE IRON, ARMCO INGOT OR TONCAN IRON—26-GAUGE, GALVANIZED—230 lbs. per 1,000 lin. ft., 10 ft. long. Packed 500 lin. ft. per crate. Also furnished in zinc and copper.

Note: For complete description of materials, finishes, etc., see page 2.

OLD STYLE METAL CORNER BEADS

NO. 5 BULL NOSE CORNER BEAD

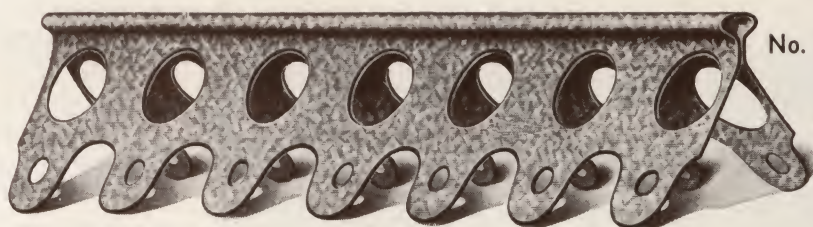
MATERIAL — No. 26 and No. 24 gauge sheet steel.

LENGTHS—5, 6, 7, 8, 9, 10 and 12 feet.

APPROXIMATE WEIGHTS — No. 26 gauge — 290 lbs. per 1,000 ft., crated; No. 24 gauge — 410 lbs. per 1,000 ft., crated. Packed 500 lin. ft. per crate.



No. 5



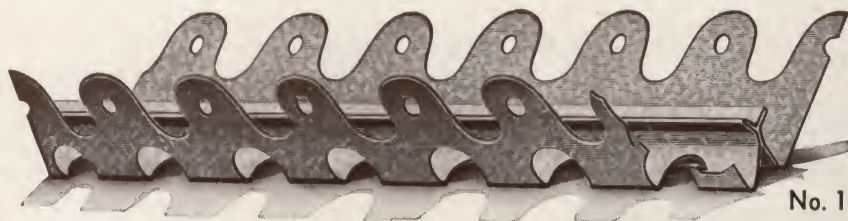
No. 13

NOS. 13 AND 14 "SUPERIOR" CORNER AND INNER ANGLE BEADS

MATERIAL — No. 26 gauge sheet steel, galvanized.

LENGTHS—6, 7, 8, 9, 10 and 12 ft.

APPROXIMATE WEIGHT—220 lbs. per 1,000 ft., crated. Packed ten pieces of uniform length to the bundle; 500 ft. per crate.



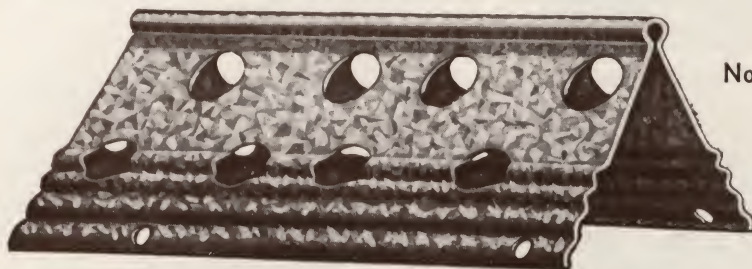
No. 14

NO. 12 EXTRA WIDE FLANGE CORNER BEAD AND NO. 19 WIDE FLANGE SCALLOPED EDGE CORNER BEAD

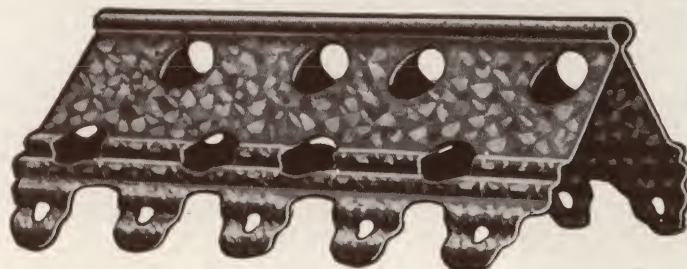
MATERIAL—No. 26 or No. 24 gauge sheet steel, galvanized.

LENGTHS—6, 7, 8, 9, 10 and 12 ft.

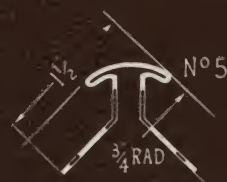
APPROXIMATE WEIGHT—No. 26 gauge —370 lbs. per 1,000 ft., No. 24 gauge—500 lbs. per 1,000 ft. Packed 500 ft. per crate.



No. 12



No. 19



GENERAL CHARACTERISTICS—For the less important work where cost is a prime factor and corner beads with the Milcor Patented Expansion Wings are not warranted, the Milcor Steel Company continues to manufacture a complete line of Old-Style Metal Corner Beads comparable in both material and design to the best of this style sold competitively.

NOTE: For complete description of materials, finishes, etc., see page 2.

NOTE. For complete description of materials, finishes, etc., see page 2.

OLD STYLE METAL CORNER BEADS, SCREEDS, ETC.

(FOR CORNER BEADS WITH EXPANSION WINGS, SEE PAGES 11 to 13)

9-8

MILCOR



No. 15 "Milcor" Corner Bead

NO. 15 "MILCOR" CORNER BEAD

MATERIAL—No. 26 gauge sheet steel, galvanized.

LENGTHS—6, 7, 8, 9, 10 and 12 ft.

APPROXIMATE WEIGHT — 185 lbs. per 1,000 ft., crated. Packed 500 ft. per crate



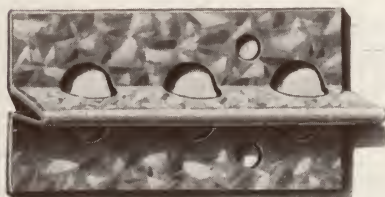
No. 61 Wide Nose Base Screed

NO. 61 WIDE NOSE BASE SCREED

MATERIAL—No. 26 gauge sheet steel, galvanized.

LENGTH—10 ft.

APPROXIMATE WEIGHT — 195 lbs. per 1,000 ft., crated.



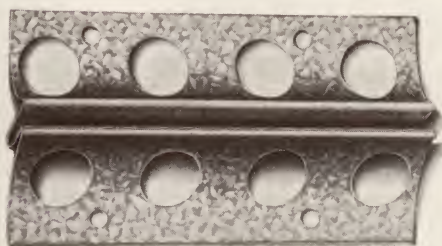
No. 77 Plain Base Screed

NO. 77 PLAIN BASE SCREED— Stocked in 1/2-inch, 5/8-inch, and 3/4-inch Grounds

MATERIAL—No. 26 gauge sheet steel, galvanized.

LENGTH—10 ft.

APPROXIMATE WEIGHT — 175 lbs. per 1,000 ft., crated. Packed 1,000 ft. per crate.



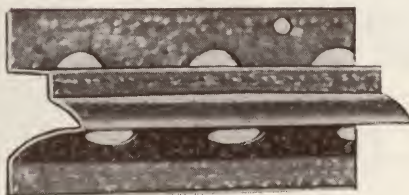
No. 70 Concealed Picture Mould

NO. 70 CONCEALED PICTURE MOULD

MATERIAL—No. 26 gauge sheet steel, galvanized.

LENGTH—10 ft.

APPROXIMATE WEIGHT — 220 lbs. per 1,000 ft., crated. Packed 1,000 ft. per crate.



No. 74 Curved Point Base Screed

NO. 74 CURVED POINT BASE SCREED

MATERIAL—No. 26 gauge sheet steel, galvanized.

LENGTH—10 ft.

APPROXIMATE WEIGHT — 195 lbs. per 1,000 ft., crated. Packed 1,000 ft. per crate.



Hump Corner
Bead Clip
(Black Steel)



Universal Corner
Bead Clip
(Galvanized)

THE MILCOR SOLID PARTITION AND FURRING SYSTEM . . .

PRODUCTS

SIMPLIFIES ERECTION AND LOWERS CONSTRUCTION COSTS

THE MILCOR SYSTEM FOR 2-INCH SOLID PARTITIONS (Patents Pending)

Three units provide the steel to hold metal lath in the Milcor Solid Partition System. They are the Ceiling Angle Runner, Specially Slotted Channel Stud, and Continuous Crimped Floor Runner. This method offers a distinct saving in time and cost.

The same units as used for Solid Partitions may be employed in erecting free-standing Furring walls. This wall may be placed at any desired distance from the outside wall and does not have any contact with it.

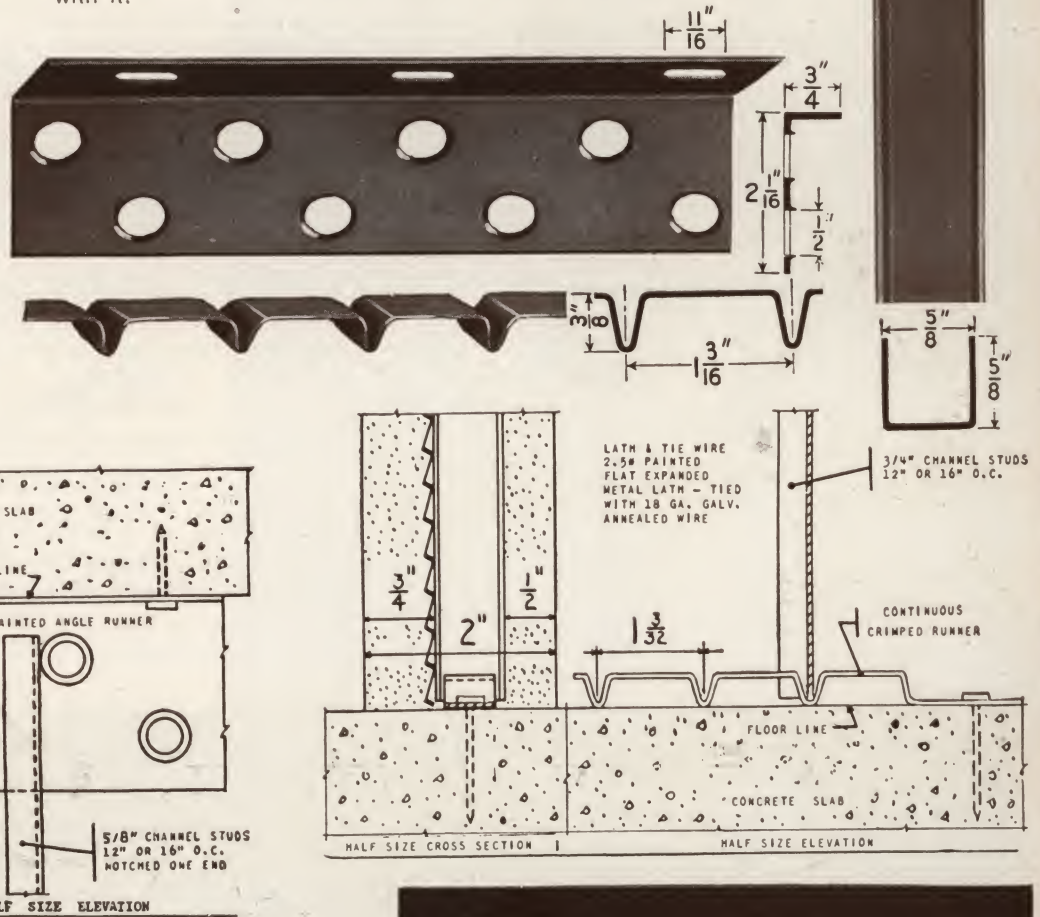
STEEL MEMBERS IN MILCOR SYSTEM ERECTED IN THREE SIMPLE OPERATIONS

CEILING ANGLE RUNNERS are attached to the ceiling with bolts, nails, or rawl drives. A burr on the holes in the CEILING RUNNER holds the Specially Slotted Channel in position.

SPECIALLY SLOTTED CHANNEL STUDS used in Milcor Solid Partitions are notched and slotted as illustrated. The slotted end is slipped on to the Ceiling Angle Runner and the other end is dropped into the Crimped Floor Runner.

CONTINUOUS CRIMPED RUNNERS are attached to the floor with nails, bolts or rawl drives directly beneath the Ceiling Angle Runner.

It is not necessary to wire Channels to either ceiling or floor runners before the lath is applied. Such wiring can be done if desired when lath is wired on channels.



MILCOR COVE LATH

Patent No. 1,975,242

Electrically welded to curved channel sections spaced 16 inches on center. Its use saves the time ordinarily consumed in cutting wood brackets and provides a steel plaster base to join wall and ceiling—the greatest insurance against plaster cracks. The Cove is made with radii of $6\frac{3}{4}$, $8\frac{3}{4}$ and $10\frac{3}{4}$ inches for a finished plaster surface of 6, 8, and 10 inches.

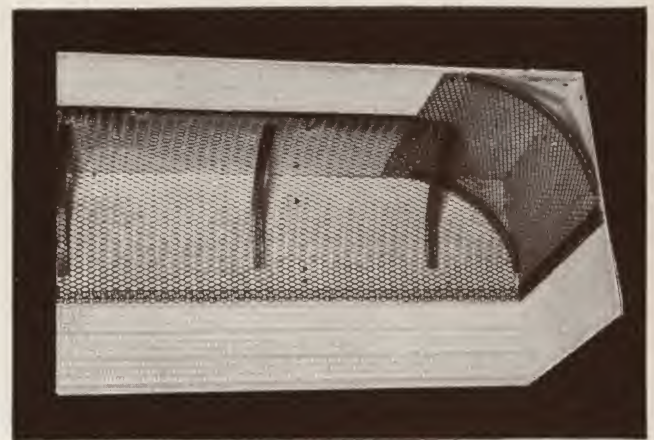
SPECIFICATION DATA. Dimensions: Furnished in sheets 8 feet long with $6\frac{3}{4}$, $8\frac{3}{4}$, and $10\frac{3}{4}$ inches actual radii.

Packing: Furnished either bundled or crated, packed 20 pieces or 160 feet per bundle or crate.

Weights per 1000 feet: $6\frac{3}{4}$ radius, 450 lbs.; $8\frac{3}{4}$ radius, 600 lbs.; $10\frac{3}{4}$ radius, 725 lbs.

MAKES PERFECT COVES . . . SAVES FUSSY WORK

DESCRIPTION—Milcor Cove Lath is made from 3.4 lb. Diamond Mesh Lath electrically welded to curved channel sections spaced 16 inches on center.



Milcor Cove Lath is exceptionally simple to miter. One section of the lath can butt up against the wall on inside corners and it is therefore only necessary to cut the other piece at an angle.

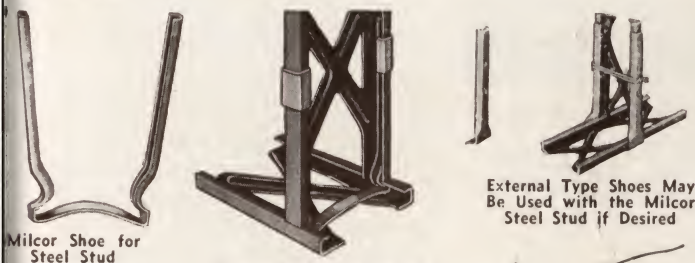
for HOLLOW PARTITION CONSTRUCTION

THE COST SAVING FEATURES OF THE MILCOR STEEL STUD RIVAL ITS ADVANTAGES FOR STRONG SATISFACTORY CONSTRUCTION

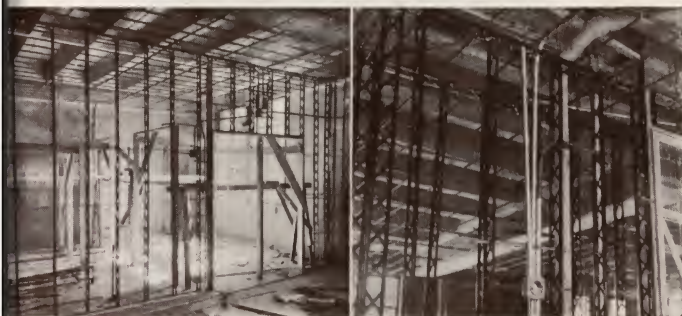
Undeniable savings in erection are achieved because of:

- 1—Remarkably quick attachment with the MILCOR SHOE.
- 2—Variety of positions in which the same shoes and studs may be locked.
- 3—Elimination of confusion with materials—only one standard unit.
- 4—Large, uniform openings enable quick installation of pipes and conduits.
- 5—Exceptional strength requires less horizontal bridging.
- 6—Quickly cut to length on the job or pre-cut if desired.
- 7—Channel sides guard against damage in transit.
- 8—Practically no cleaning up costs after installation.

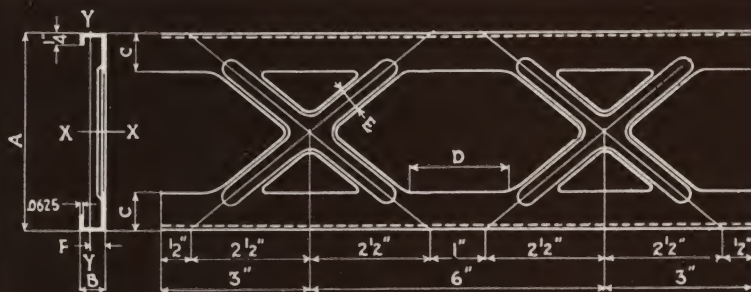
The above savings are of definite value as every architect and contractor knows. They include things that cost real dollars and cents on the job.



The shoe fits into the channel sections of the members to be joined, is quickly wedged into the floor runner by tapping with a hammer and to the stud section with special clips. External shoes may be used if desired. With the Milcor shoe a firm attachment of the stud can be made to floor or ceiling runners and also to studs in horizontal position. Thus a number of combinations can be built up to allow for openings of any desired size—at the same time retaining a steel foundation of extreme rigidity.



The ease of installation of electrical conduits, water pipes, etc., in connection with MILCOR STEEL STUDS and the ready adaptability of these studs to framing for doors and other openings is depicted above.



PROPERTIES OF MILCOR STEEL STUDS

All Dimensions in Inches						Area Sq. Ins.	Axis x-x			Axis y-y		
A	B	C	D	E	F		I	S	r	I	S	r
2	1/2	3/8	2	3/8	.223	.125	.099	.099	.890	.004	.015	.184
2 1/4	1/2	1/2	2 1/4	3/8	.200	.140	.136	.121	.985	.005	.016	.183
3	1/2	3/4	2 3/4	3/8	.171	.172	.283	.189	1.28	.005	.017	.177
3 1/4	1/2	3/4	2 3/4	3/8	.171	.172	.341	.210	1.41	.005	.017	.177
4	1/2	3/4	2	1/2	.171	.172	.544	.272	1.78	.005	.017	.177
6	1/2	3/4	1 1/2	1/2	.171	.172	1.46	.485	2.78	.009	.017	.177

SAFE TOTAL LOAD IN POUNDS PER LINEAR FOOT OF STUD

Simple Span. Uniform Load. Working Stress 15,000 Pounds Per Square Inch

Size in. ins.	Clear Span in Feet																
	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
2	39	27	20	15	12	9	8	6	5	4	3	2	1	1	1	1	
2 1/4	48	33	25	19	15	12	10	8	6	5	4	3	2	1	1	1	
3	75	52	38	28	23	19	15	13	11	9	7	6	5	4	3	2	
3 1/4	84	58	43	33	26	21	17	14	12	10	8	7	6	5	4	3	
4	108	75	55	42	33	27	22	19	16	14	12	10	8	7	6	5	
6	134	98	75	59	48	40	33	28	25	21	19	16	15	13	12	11	

The load per square foot for any spacing is equal to the tabular load x 12/spacing in inches. EXAMPLE: What is the safe load that 6 inch studs spaced 16 inches on centers, span 11 feet, will support? Tabular value is 40, therefore 40 x 12/16 equals 30 pounds per square foot.

The spacing in inches for any load is equal to the tabular load x 12/load per square foot. EXAMPLE: What spacing will be required for 4 inch studs, span 10 feet, to support 20 pounds per square foot? Tabular value is 27, therefore 27 x 12/20 equals 16.2 inches on centers. Use 16 inches.

The safe total load for any stress is equal to the tabular load x the stress/15,000. EXAMPLE: What safe load per linear foot will be supported by 4 inch studs, span 10 feet, with 18,000 pounds per square inch working stress? Tabular value is 27, therefore 27 x 18,000/15,000 equals 32.4 pounds per linear foot.

To support the tabular loads, studs must be braced laterally and securely connected to the structure.

RECOMMENDED STUD SPACING FOR VARIOUS WEIGHTS OF MILCOR METAL LATH

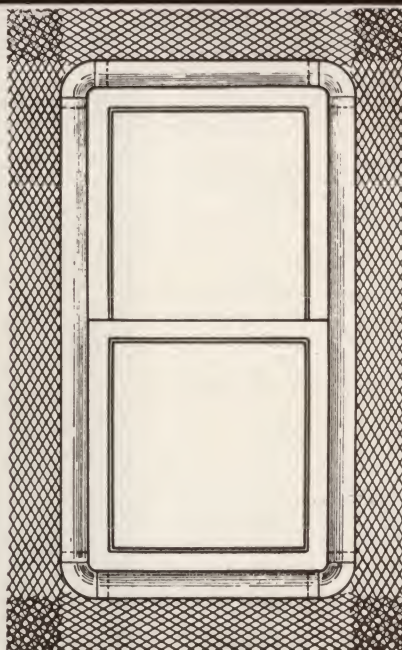
Type and Weight of Metal Lath	Recommended Spacing of Studs
2.5 lb. Netmesh Lath	12 inches
3.0 lb. Netmesh Lath	12 inches
3.4 lb. Netmesh Lath	16 inches
2.75 lb. Kuehn's Specialmesh or Stay-rib No. 1	16 inches
3.0 lb. Kuehn's Specialmesh or Stay-rib No. 1	20 inches
3.4 lb. Kuehn's Specialmesh or Stay-rib No. 1	20 inches
2.5 lb. 3/8" Stay-rib No. 2	16 to 20 inches
3.0 lb. 3/8" Stay-rib No. 2	24 inches
3.4 lb. 3/8" Stay-rib No. 2	28 to 32 inches
4.0 lb. 3/8" Stay-rib No. 2	32 inches

METAL WINDOW TRIM AND STOOLS

MILCOR
METAL



Above photograph shows application before plastering of Milcor Window Stool No. 520 used in conjunction with Window Trim No. 500 which forms jambs and head. Note particularly the function of the Expanded Metal Flange which is seamed or welded on the Stool and Trim and will eliminate any possibility of cleavage cracks at joining of plaster and trim. On the opposite page is a similar installation after the interior has been completed.



Sketch above shows No. 500 Window Stool and Fittings used as complete window Trim, with Expanded Metal Flange reinforcement on all sides.

SPECIAL

1. Milcor Metal Window Trim and Stools provide best possible construction for practically all kinds of buildings. Permanence, fire safety, and resistance to use and abuse are inherent advantages in these products because they are made entirely of heavy metal.

2. They are sanitary and economical, easy to keep clean and to maintain.

3. All types are attractive in appearance and adaptable to any installation, being particularly suited to use in public buildings, schools, hospitals, institutions, hotels, apartments, offices and industrial buildings.

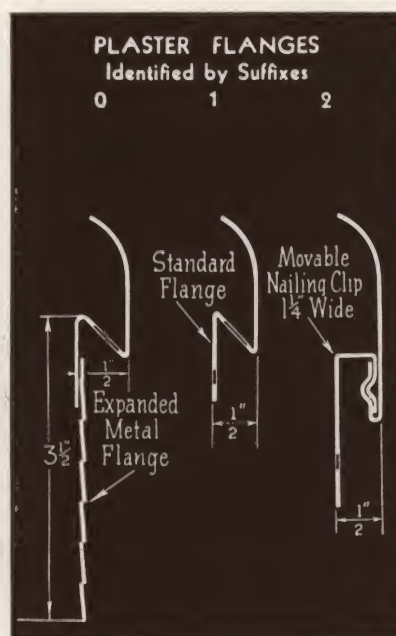
MILCOR TRIM

AVAILABLE WITH ANY OF THREE FLANGES

Most Milcor Metal Trim Products are available with any of three different types of Metal Flanges for fastening the trim to the wall.

EXPANSION WING FEATURE—Obviously the most practical of these is the Expanded Metal Flange, which in many cases is formed as an integral part spot-welded to the exposed moulding. The advantage of this expansion flange lies principally in its function as a permanent plaster bond whose network of expanded steel prevents checking and cracking of plaster at the vulnerable points.

Cross section views of the Expanded Metal Flange, Standard Flange, and movable Nailing Clip are shown in sketch at right. Any of these flanges are available on all Milcor Window Stools and flange desired should be clearly specified.



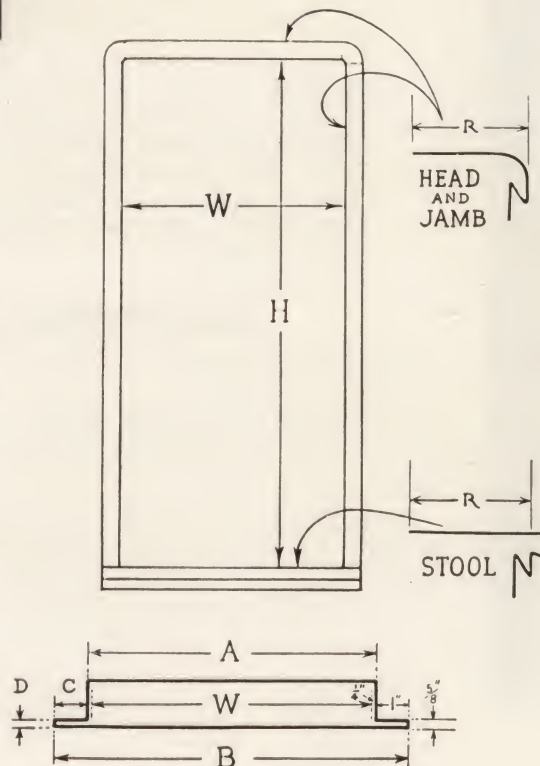
PRODUCTS

TRIM

METAL WINDOW TRIM AND STOOLS

FEATURES

4. The line is COMPLETE. Every desirable type of metal window trim and stool may be found in the Milcor line and numerous different installations may be achieved by combining various designs, mouldings and bases.
5. Most Milcor Trim is available with any of three types of plaster flanges: 1. Expansion Wing; 2. Standard Flange; and 3. Movable Clip.
6. Cast iron fittings are WELDED to the stools and trim at the factory, an important, exclusive feature which makes these products unequalled in strength, appearance and ease of installation.



The simple architectural beauty which can be achieved through the use of Milcor Metal Trim is readily evident in the above photograph. It is so obviously more attractive than the old heavy wood trim that comparison is unnecessary. But even more important than its good looks are the many practical advantages which make it the ideal trim for every structure.

INSTRUCTION CHART FOR ORDERING WINDOW TRIM

Window Stools and Trim are generally cut to the exact length desired and the proper end fittings permanently welded at the factory. Therefore, it is necessary that we be supplied with dimensions as shown in accompanying chart.

MEASUREMENTS REQUIRED FOR FLAT FACED STYLE WINDOW TRIM AND STOOL

W—Represents the width of opening between finished plastered jambs.

A—Equals width including $\frac{1}{4}$ in. allowance on each end of stool for projection into the finished plaster. This prevents any possibility of an exposed crack.

B—Represents overall exposed surface including $1\frac{1}{4}$ in. projection on each end of stool beyond window openings.

C—Represents standard notch. This may be varied depending on distance of projection required. Standard notching furnished unless otherwise specified.

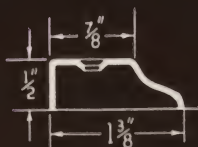
D—Represents $\frac{1}{2}$ in. width of extension beyond face of finished plaster line. Additional $\frac{1}{4}$ in. furnished for inserting in plaster.

H—Represents height of window opening from face of stool to finished plaster head.

R—Represents the reveal to plaster line. This reveal must be measured from window sash to finished plaster line. $\frac{1}{2}$ in. allowed for projection beyond finished plaster line.

No. 703 Window Stop

Window Stop No. 703 may be used on all Milcor and Richsto Window Stools. See dimensions in sketch.



WINDOW TRIM AND STOOLS

No. 500 SERIES

MILCOR



MILCOR

No. 500 WINDOW STOOL

1½" Radius with 500-H Fitting

CAST FITTINGS FOR NOS. 500, 501, 502 WINDOW TRIM (See page 23, opposite)

No. 500-A All round Corner for ¾ in. Stool with ¾ in. radius Trim.

No. 500-B All round Corner for 1½ in. Stool with 1½ in. radius Trim.

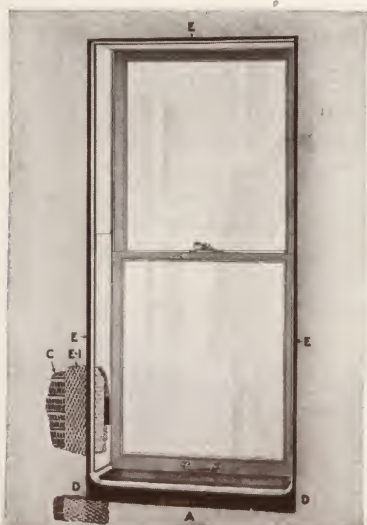
No. 500-C Left Corner for 1½ in. Stool with ¾ in. radius Trim.

No. 500-D Right Corner for 1½ in. Stool with ¾ in. radius Trim.

No. 500-E Left Corner for ¾ in. Stool with ¾ in. Bull Nose Bead.

No. 500-F Right Corner for ¾ in. Stool with ¾ in. Bull Nose Bead.

No. 500-G Left Corner for 1½ in. Stool with ¾ in. Bull Nose Bead.



MILCOR No. 500 Series Trim and Stools provide suitable construction for modern public buildings, schools, hospitals, institutions, hotels, apartments, offices and industrial buildings. The natural qualities of the metal surface provide sanitation, fire safety and attractive appearance while the Expansion Wing offers permanent protection against cracks and cleavage.

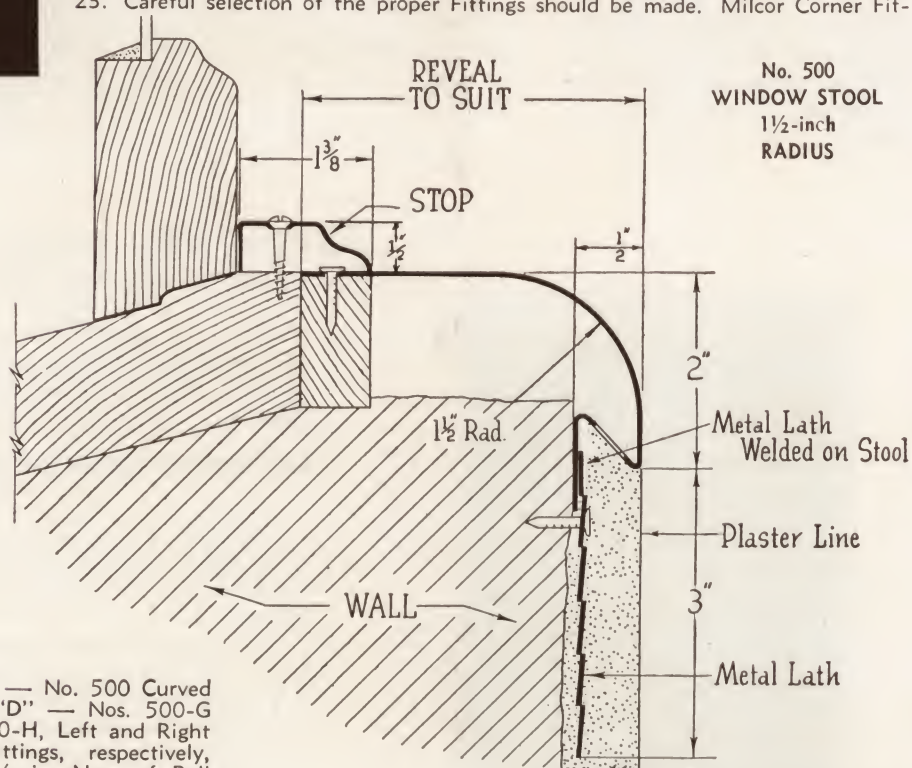
RECOMMENDED SPECIFICATION DATA

1 — IDENTIFICATION OF STOOL — Stools should be selected and specified by numbers given herein.

2 — KIND OF METAL AND GAUGE — Milcor Window Stools and Trim are made from Tight Coat Galvanized Sheets of 20, 18, 16, 14 and 12 gauge metal. Can be made from Inland Pure Iron, Armco Ingot Iron, Toncan Iron or Copper Alloy.

3 — FINISH — Milcor Window Stools and Trim are given a priming coat at the factory and take any type of painting or decorating finish. Finishing coat should be put on after the trim is installed and the plastering is completed.

4 — FITTINGS — Fittings for Window Trim No. 500 Series are shown on page 23. Careful selection of the proper Fittings should be made. Milcor Corner Fit-



"A" — No. 500 Curved Stool, "D" — Nos. 500-G and 500-H, Left and Right End Fittings, respectively, "E" — ¾ in. Nose of Bull Nose Expansion Corner Bead No. 10, "E-1" — Expanded Metal Wings of Bead; "C" — Kuehn's Specialmesh Metal Lath in wall.

It is important that explicit specifications be given regarding gauges of metal to be used. As a general rule we recommend 18 gauge metal for stools where the reveal is not wider than 4 in. and the stool is 5 ft. or less. With a greater reveal than 4 in. or where the stool is

Stamped Sheet Metal Corners Available
for Window Trim Styles B, G, and H

PRODUCTS

No. 500 WITH EXPANDED METAL FLANGE No. 501 WITH STANDARD FLANGE No. 502 WITH MOVABLE NAILING CLIP

Curved Metal Window Trim No. 500 Series is made in two types — one with a $\frac{3}{4}$ -inch radius and one with a $1\frac{1}{2}$ -inch radius. Cross section diagrams of each of these series (shown below) are made to $\frac{1}{2}$ -inch scale.

This Window Trim may be used as a Window Stool in connection with other Milcor Products or as complete trim for the window.

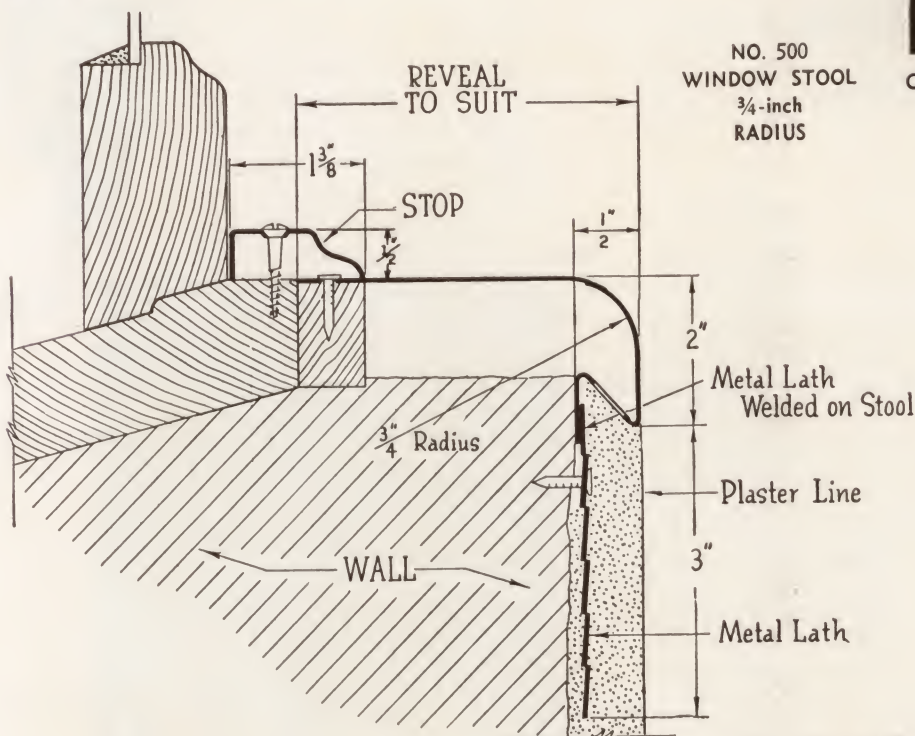
FOR ALL WINDOW TRIM AND STOOLS

tings are made from the best grades of gray cast iron, sand blasted and machined.

Corner Fittings are welded to the Trim at the factory if dimensions of windows are given when order is placed. It is sometimes desirable to ship the windows completely knocked down to be assembled on the job.

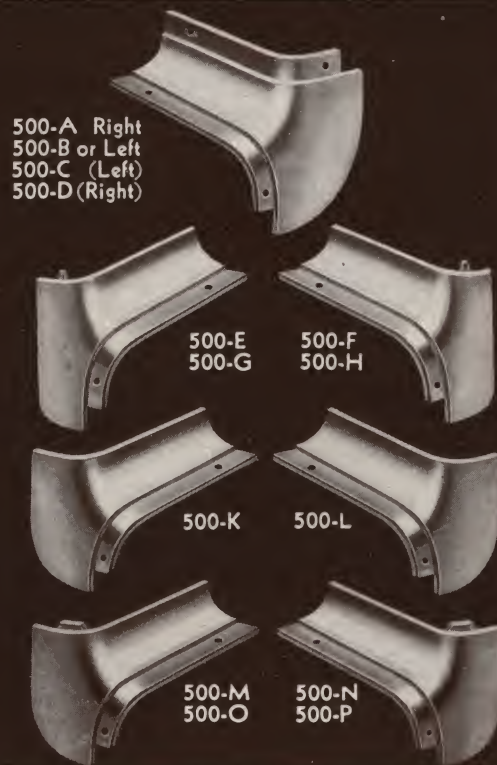
5 — GROUTING — Grouting is recommended for all Milcor Window Stools. Specifications should call for a thick grout upon which the stools are to be set.

Exact dimensions should be supplied the manufacturers wherever possible, so that most of the work in preparing the Trim for installation may be taken care of at the factory.



longer than 5 ft. metals of 16, 14 or 12 gauge should be specified. In public and commercial buildings it is best not to use a lighter metal than 16 gauge for stools. These stools are cut to the required length, necessary Fittings are attached, crated and shipped ready to be set in place.

"H"—No. 520 Flat Metal Window Stool; "A"—No. 500 Curved Stool used as trim; "B"—No. 500-A and B Corner Fittings; "C"—Expansion Wing attached to No. 500 Window Trim.



CAST FITTINGS FOR NOS. 500, 501, 502 WINDOW TRIM
(See page 22, opposite, for Nos. 500-A to 500-G, inc.)

- No. 500-H Right Corner for $1\frac{1}{2}$ -inch Stool with $\frac{3}{4}$ -inch Bull Nose Bead.
- No. 500-K Left Corner for $1\frac{1}{2}$ -inch Stool with $1\frac{1}{2}$ -inch Bull Nose Bead.
- No. 500-L Right Corner for $1\frac{1}{2}$ -inch Stool with $1\frac{1}{2}$ -inch Bull Nose Bead.
- No. 500-M Left Corner for $\frac{3}{4}$ -inch Stool with $\frac{3}{4}$ -inch Plaster Jamb.
- No. 500-N Right Corner for $\frac{3}{4}$ -inch Stool with $\frac{3}{4}$ -inch Plaster Jamb.
- No. 500-O Left Corner for $1\frac{1}{2}$ -inch Stool with $1\frac{1}{2}$ -inch Plaster Jamb.
- No. 500-P Right Corner for $1\frac{1}{2}$ -inch Stool with $1\frac{1}{2}$ -inch Plaster Jamb.



No. 520 SERIES WINDOW STOOLS

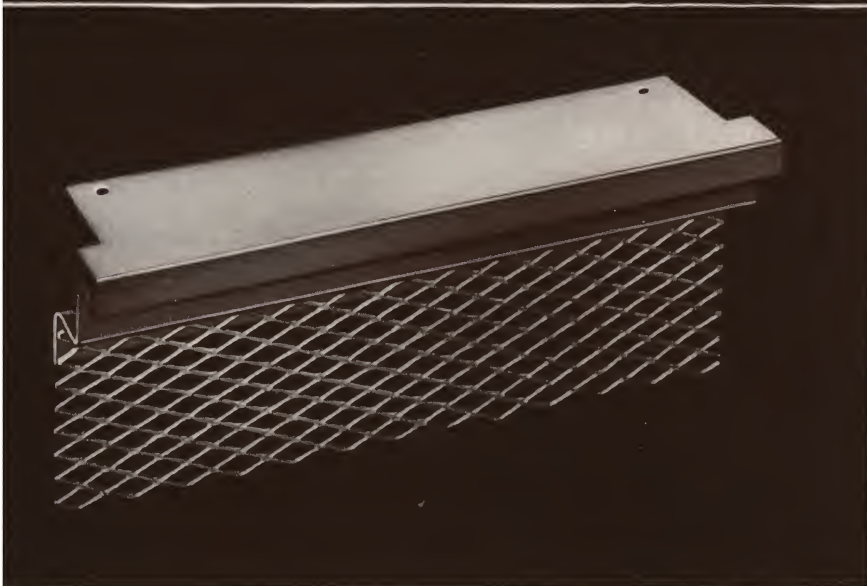
9-8

No. 520 — WITH EXPANDED METAL FLANGE

No. 521 — WITH STANDARD FLANGE

No. 522 — WITH MOVABLE NAILING CLIP

MILCOR



Very often a flat Metal Window Stool is desired and the No. 520 made by Milcor, as shown here, will solve the problem admirably.

Closures for the ends (as shown below) are furnished without extra charge. Cement grouting is recommended for good construction, particularly with the Flat Metal Window Stool.

This stool has all the natural advantages of steel construction. It is pleasingly conservative in appearance and is suitable for residential use in place of wood stools.

No special Fittings are required to connect the jambs with this stool as the jambs rest on the flat surface of the stool. Milcor Bull Nose Expansion Wing Bead No. 10, or No. 1 mitered to fit, make the most desirable jamb. This Window Stool may be pleasingly applied with Metal Window Trim No. 500 Series as described on Page 22.

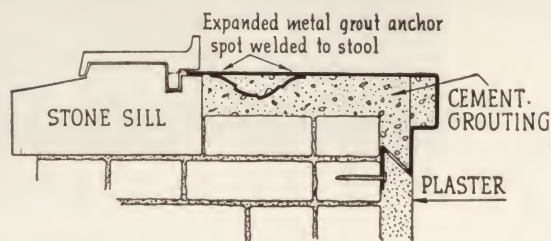


Diagram which shows expanded metal grout anchors spot welded to stool. (Furnished at slight additional cost.)



Illustration shows No. 520 Flat Metal Window Stool used with No. 500 Trim (see page 22) "A"—No. 500 Curved Stool used as trim; "B"—No. 500-A and B Corner Fittings; "H"—No. 520 Flat Metal Window Stool; "C"—Expansion Wing attached to No. 500 Window Trim.

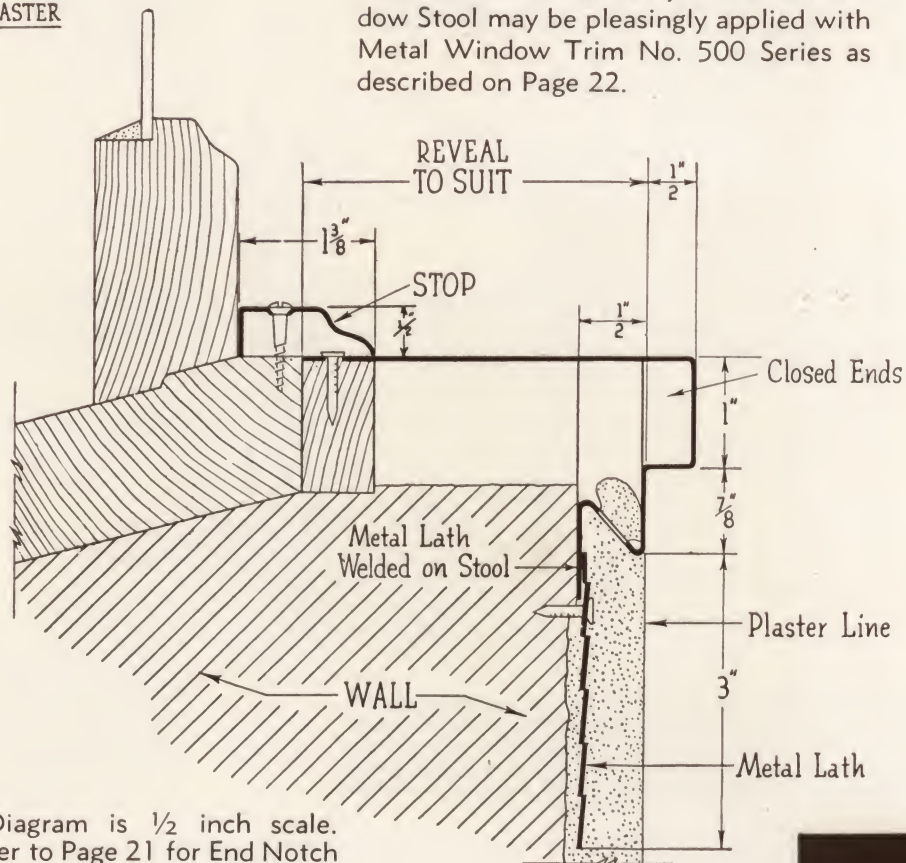
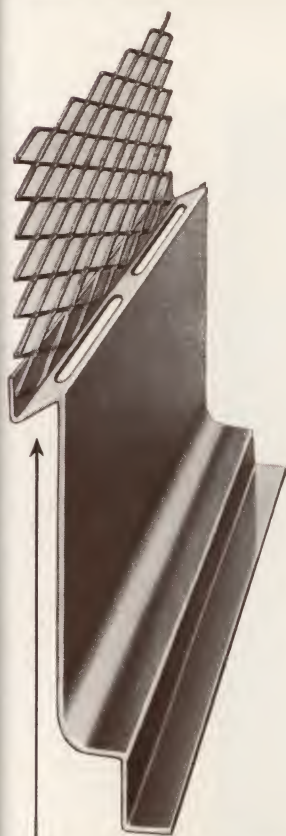


Diagram is 1/2 inch scale. Refer to Page 21 for End Notch dimensions.

MILCOR METAL BASES

PRODUCTS



MILCOR METAL
BASES AVAILABLE
WITH ANY OF THREE
PLASTER FLANGES

NOTE
PERFORATIONS
TO PERMIT
ENTRY OF
FILL

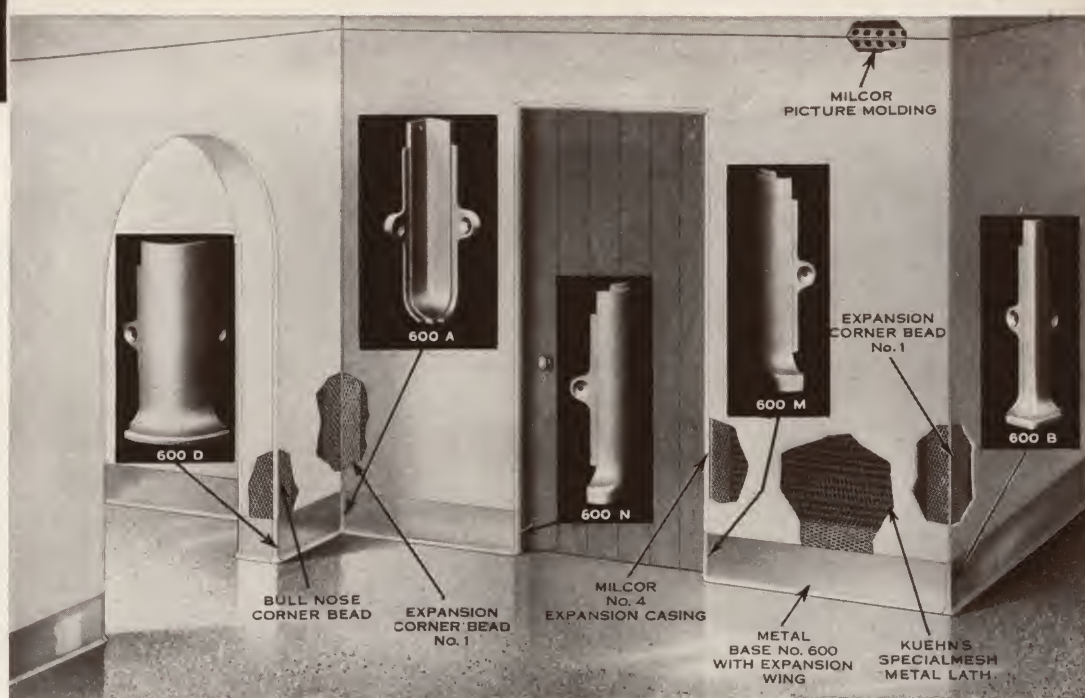
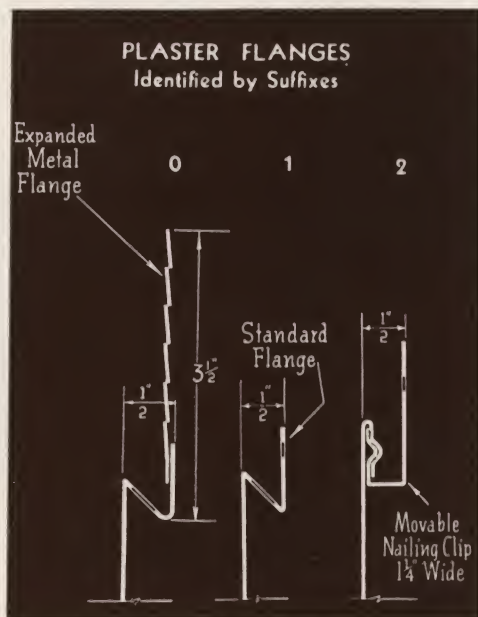


Illustration shows typical installation of Milcor Fireproof Materials with particular reference to the use of Milcor Metal Base. Corner and End Fittings perfectly match the contour of Milcor Expansion Corner Bead, No. 1; Bull Nose Corner Bead, and Casing. Complete Fittings for No. 600 Metal Base illustrated above are given on page 27.

GENERAL SPECIFICATION DATA FOR ALL BASES

- 1—PLAN SHOWING LOCATION—A plan showing just where metal bases are to be used is recommended.
- 2—IDENTIFICATION OF BASE—Base should be selected and specified by numbers as given in this catalog.
- 3—KIND OF METAL AND GAUGE—Milcor Bases are made from Tight Coat Galvanized Sheets of 18 and 20 gauge metal.
- 4—FINISH—Milcor Bases are given a priming coat at the factory and take any type of painting or decorating finish. Finish coat should be put on after base is in place and the plastering is completed.
- 5—FITTINGS—Milcor Corner Fittings for right angles both inside or outside, as well as terminating points of base part, are furnished as illustrated in this catalog. Special angles should be taken care of by mitering or coping. Special fittings for odd usages or unusual corners may be furnished if a sufficient number is required to justify patterns. As a rule, however, special angle corners on any job may be made by a skilled workman when the base is being installed.
- 6—GROUTING—Grouting is recommended for all Milcor Flush-with-Plaster type Bases. Specifications should call for a cement grout to be poured in through the slots after the base is placed.
- 7—INSTALLATION—The base should be installed with the use of special tools rented from the manufacturer, for punching and sawing.

No. 600 SERIES METAL BASES

No. 600 — WITH EXPANDED METAL FLANGE

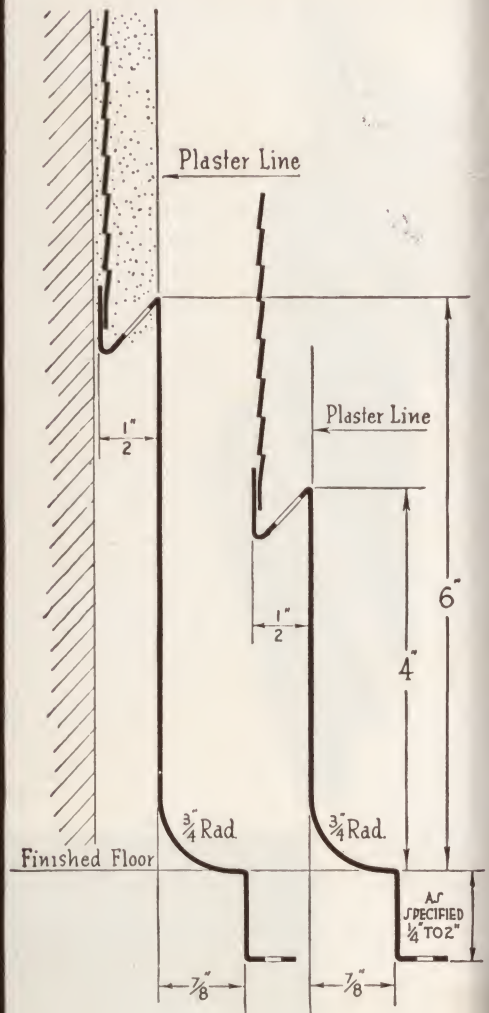
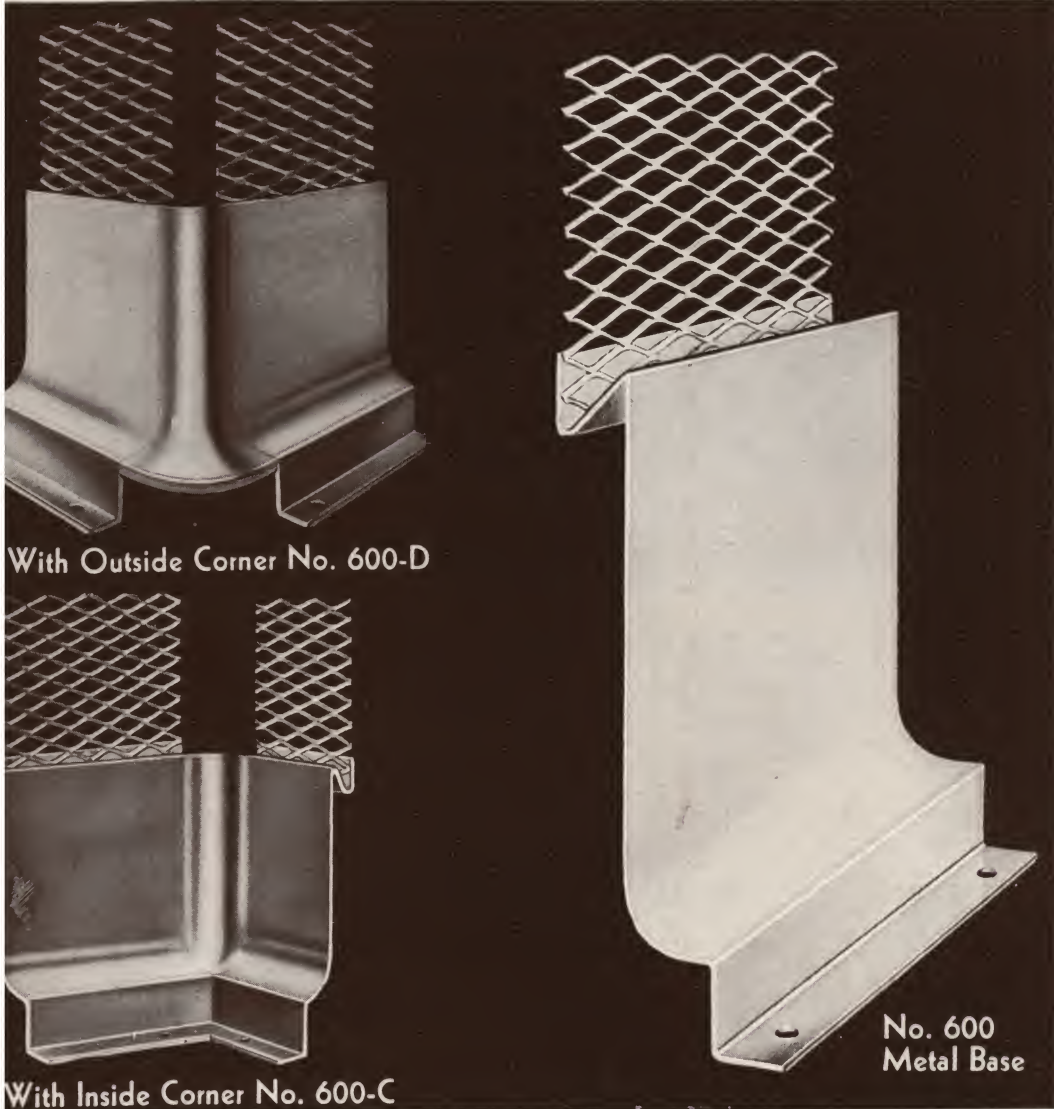
No. 601 — WITH STANDARD FLANGE

No. 602 — WITH MOVABLE NAILING CLIP

9-8

MILCOR

SEE PAGE 25 FOR EXPLANATION OF FLANGES



NO. 600 METAL BASE, WITH EXPANDED METAL FLANGE (ILLUSTRATED)

Illustrations of No. 600 Metal Base show the Expanded Metal Flange as it is attached to the base. This flush-with-plaster type base is practical for the majority of installations.

Milcor Metal Bases with Expanded Metal Flange provide a permanent bond which eliminates any possibility of cleavage cracks at the joining of plaster and base. In addition to its grip on the plaster, the Expanded Metal Flange is attached firmly to the wall and assures positive plaster reinforcement and the greatest known assurance against plaster cracks.

The No. 600 Series, like all Milcor Bases, is furnished in 4-inch and 6-inch heights. See general specification data on page 25.

Nos. 601 and 611 METAL BASES (IN 600 and 610 SERIES)

See general specification data on page 25.

The Metal Bases shown below are included in the 600 and 610 groups but numbered 601 and 611 because they have the standard flange. No. 602 has exactly the same contour but utilizes the movable nailing clip for attaching to the wall. (See page 25.)

The 610 Series is identical with the 600 Series except that the lower flange is attached to the wall instead of to the floor. Bases in this series are as follows:

- No. 610 With Expanded Metal Flange
- No. 611 With Standard Flange, (illustrated)
- No. 612 With Movable Nailing Clip



No. 611
Metal Base



With Outside Corner No. 600-D



With Inside Corner No. 600-C



No. 601
Metal Base



No. 600-A

B

C

D

E

F

H

J

M

N

FOUR AND SIX-INCH FITTINGS FOR NOS. 600 AND 610 SERIES

Double Lugs Furnished on Six-Inch Fittings

- No. 600-A Square. Inside cast iron corner.
- No. 600-B Square. Outside cast iron corner.
- No. 600-C $\frac{3}{4}$ -inch radius. Inside cast iron corner.
- No. 600-D $\frac{3}{4}$ -inch radius. Outside cast iron corner.
- No. 600-E $1\frac{1}{2}$ -inch radius. Inside cast iron corner.
- No. 600-F $1\frac{1}{2}$ -inch radius. Outside cast iron corner.
- No. 600-H Right end. End stop cast iron.
- No. 600-J Left end. End stop cast iron.
- No. 600-M Right side. Plinth cast iron for No. 4 casing.
- No. 600-N Left side. Plinth cast iron for No. 4 casing.

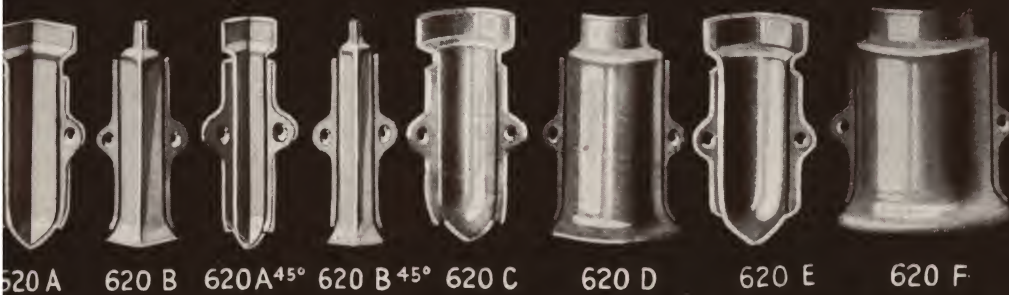
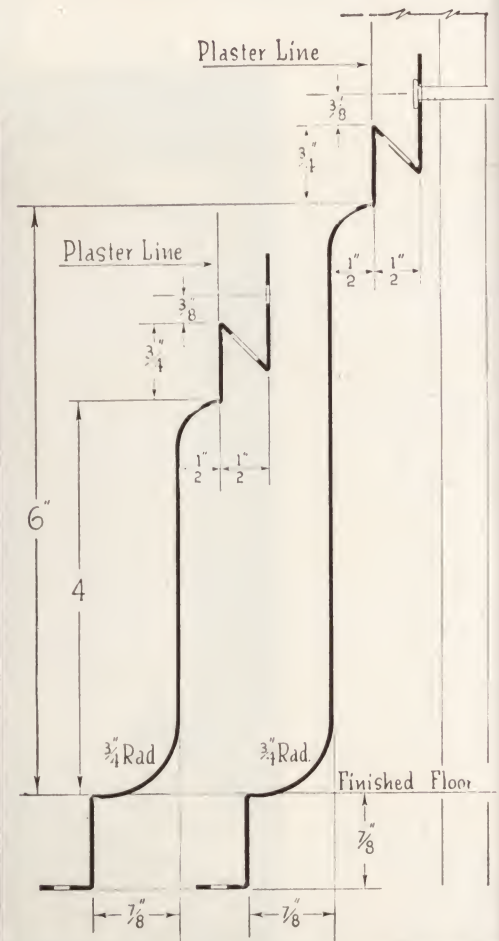
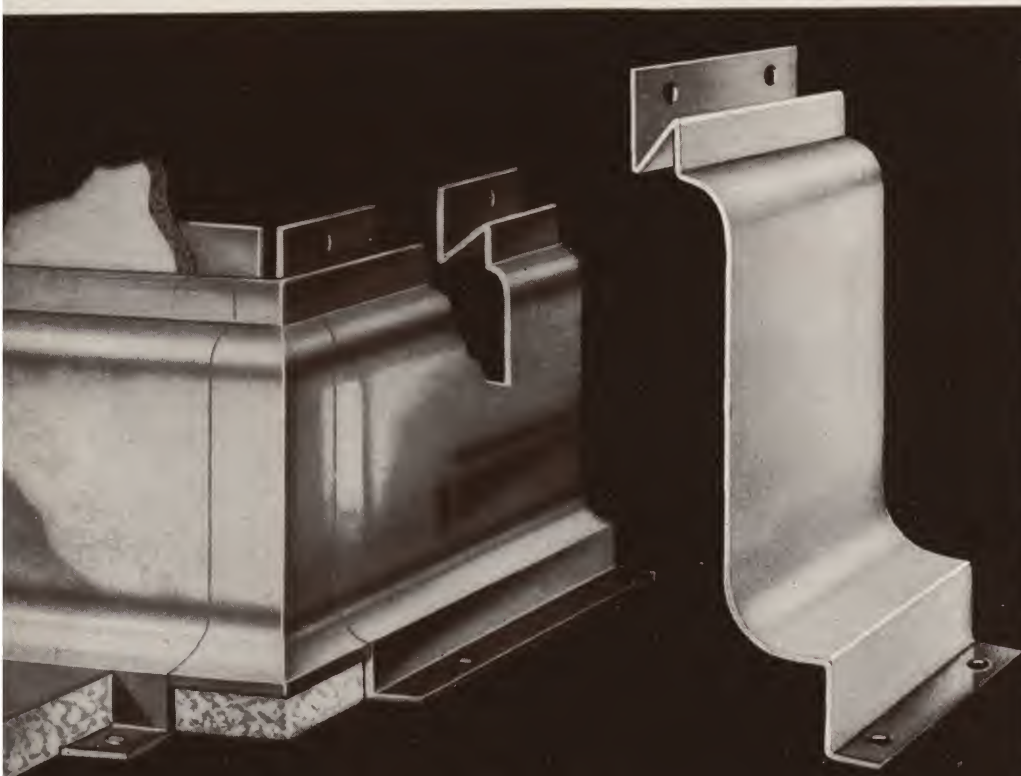
No. 620 PROJECTING TYPE METAL BASES

See General Spec-
ification Data on
page 25

No. 620 — WITH EXPANDED METAL FLANGE
No. 621 — WITH STANDARD FLANGE (ILLUSTRATED)
No. 622 — WITH MOVABLE NAILING CLIP

The No. 620 Style of Base Design appeals to many architects and designers because the projection of the base out from the plaster line gives an additional trim effect to the room. The old wood base had to be installed in front of the plaster line and many persons are used to and prefer this appearance.

The No. 620 design is just as practical as other flush-with-plaster type metal bases. Diagram shows dimensions of both 4-inch and 6-inch styles drawn to 1/2-inch scale.



FOUR-INCH AND SIX-INCH FITTINGS FOR NO. 620 SERIES

Double Lugs Furnished on Six-Inch Fittings

No. 620-A Square. Inside cast iron corner.
No. 620-B Square. Outside cast iron corner.
No. 620-A 45°. Inside corner, 45° angle.
No. 620-B 45°. Outside corner, 45° angle.
No. 620-C 3/4-inch radius. Inside cast iron corner.
No. 620-D 3/4-inch radius. Outside cast iron corner.

No. 620-E 1 1/2-inch radius. Inside cast iron corner.

No. 620-F 1 1/2-inch radius. Outside cast iron corner.

No. 620-H Right End. End stop cast iron.

No. 620-J Left End. End stop cast iron.

No. 620-M Right Side. Plinth, cast iron, for No. 138 or No. 141 Casing.

No. 620-N Left Side. Plinth, cast iron, for No. 138 or No. 141 Casing.



620 H 620 J 620 M 620 N

No. 630 ADJUSTABLE FLUSH TYPE METAL BASES

- No. 630 — WITH EXPANDED METAL FLANGE
 No. 631 — WITH STANDARD FLANGE (ILLUSTRATED)
 No. 632 — WITH MOVABLE NAILING CLIP

Bases in the 630 Series are especially suitable for wood or linoleum floors. The bases are of the flush type and are provided with an adjustable bottom cove mould. The lower part of the base is erected after plastering and after the floor is laid, by the use of wood screws as shown in detail below. Necessary 1-inch No. 5 oval head wood screws are furnished for the cove of this base.

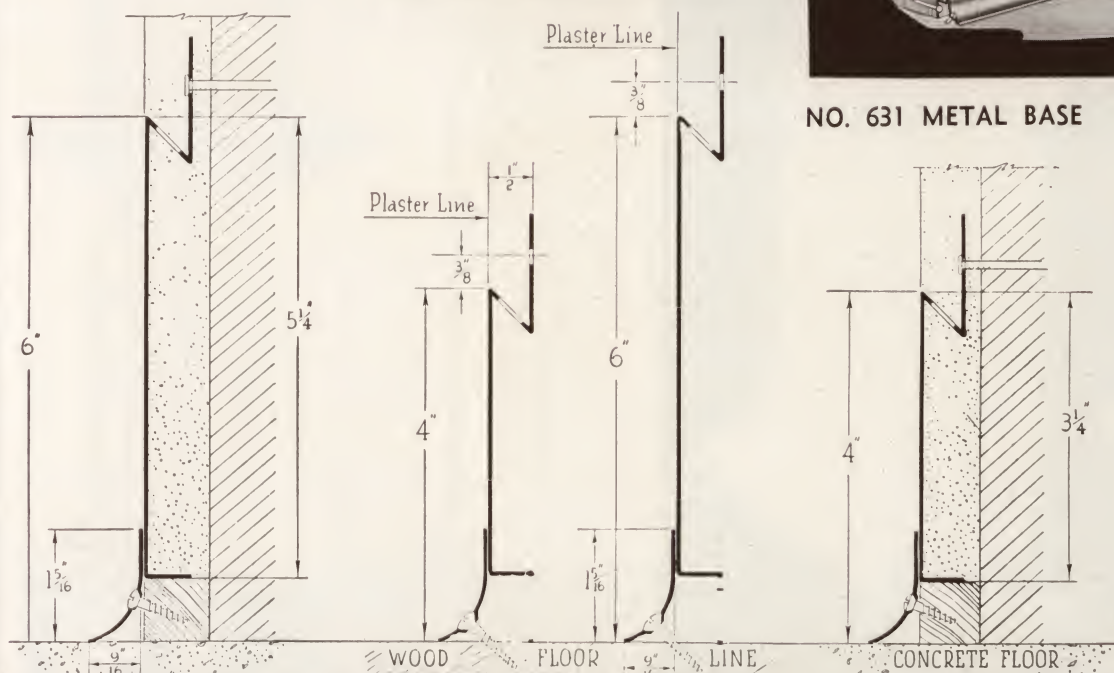
Specify whether base is to be used for cement or wood floor, so proper lower cove will be furnished.

Note different construction in diagrams.

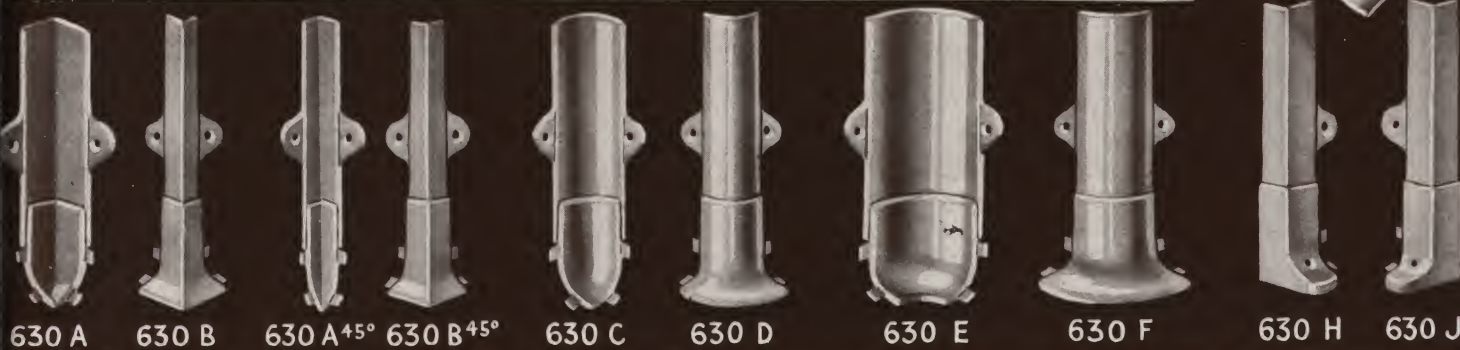
Lower Cove for Bases in No. 630 Series is installed after wall and floor are finished.



NO. 631 METAL BASE



Note Method of Attaching Lower Cove Mould for Different Floor Conditions.



FOUR-INCH AND SIX-INCH FITTINGS FOR NO. 630 SERIES

Double Lugs Furnished on Six-Inch Fittings

- No. 630-A Square. Inside cast iron corner.
 No. 630-A 45°. Inside corner, 45° angle.
 No. 630-B Square. Outside cast iron corner.
 No. 630-B 45°. Outside corner, 45° angle.
 No. 630-C 3/4-inch radius. Inside cast iron corner.

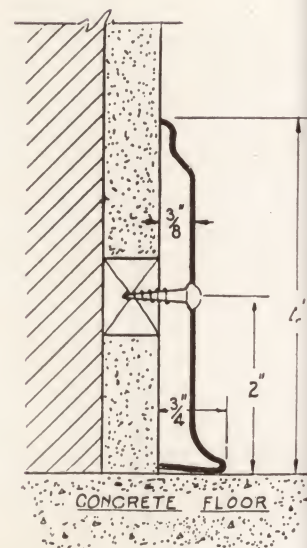
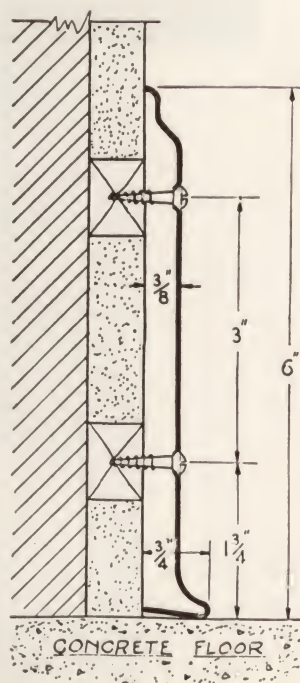
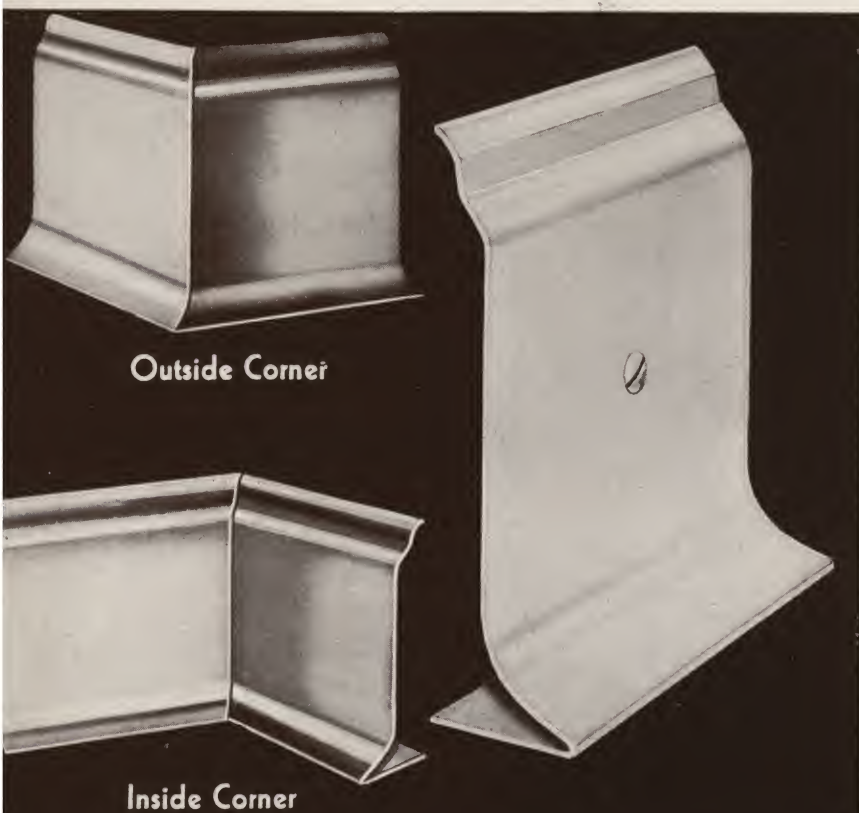
- No. 630-D 3/4-inch radius. Outside cast iron corner.
 No. 630-E 1 1/2-inch radius. Inside cast iron corner.
 No. 630-F 1 1/2-inch radius. Outside cast iron corner.
 No. 630-H Left End. End stop cast iron.
 No. 630-J Right End. End stop cast iron.

No. 644 REMOVABLE METAL BASE

MILCOR

The Milcor Removable Base No. 644 may be used with equal success in new or old buildings. The application of these bases is comparatively simple and their use enhances the appearance of any interior. They are a very important factor in modernizing or dressing up an old building.

This type of metal base is economically installed because it may be applied after the plastered wall and the flooring have been completed. One or two wooden plaster grounds in the wall, as required according to the size of the base used, are necessary for attaching. The design of the base itself makes a furring strip unnecessary. The bottom flange holds the base in proper position from the wall.



FOUR AND SIX-INCH FITTINGS FOR REMOVABLE METAL BASE NO. 644

- No. 644-A Square. Inside cast iron corner.
- No. 644-B Square. Outside cast iron corner.
- No. 644-C $\frac{3}{4}$ -inch radius. Inside cast iron corner.
- No. 644-D $\frac{3}{4}$ -inch radius. Outside cast iron corner.

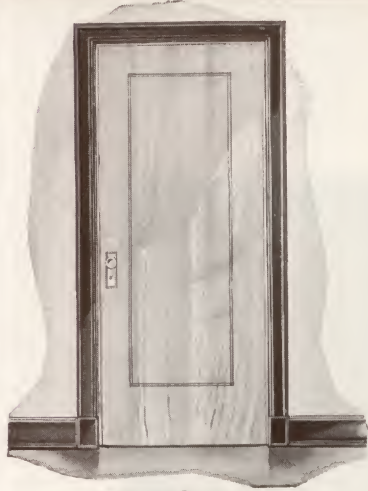
- No. 644-E $1\frac{1}{2}$ -inch radius. Inside cast iron corner.
- No. 644-F $1\frac{1}{2}$ -inch radius. Outside cast iron corner.
- No. 644-H Left Side. End stop cast iron.
- No. 644-J Right Side. End stop cast iron.
- No. 644-M Right Side. Plinth, cast iron, for No. 4 Casing.
- No. 644-N Left Side. Plinth, cast iron for No. 4 Casing.

No. 645 METAL BASE AND CASING

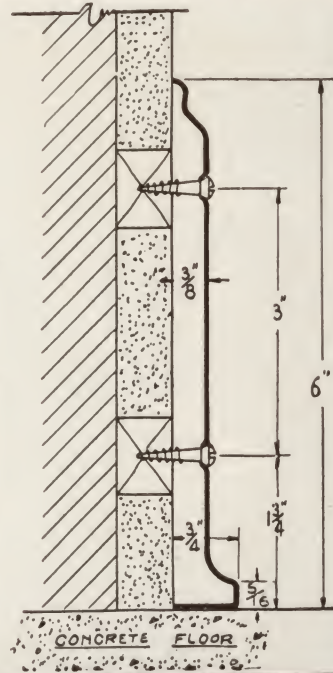
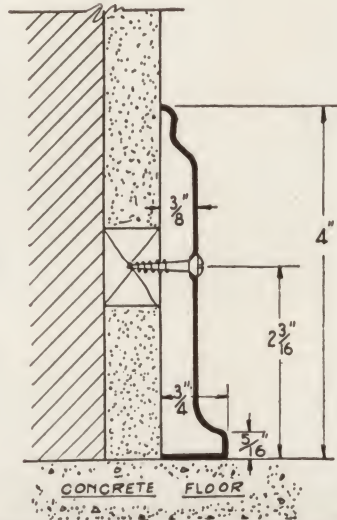
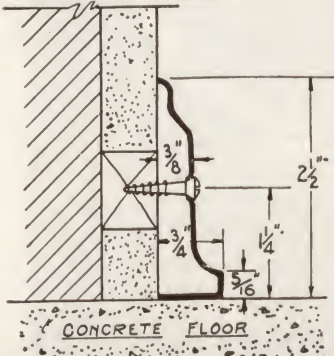
The No. 645 Metal Base is furnished in three sizes as illustrated in cross section diagrams: 2½-inch, 4-inch and 6-inch.

These Bases are designed for use with concrete floors. They may also be used as door casings, as indicated in the illustration to the left. The design is dignified, artistic and economical, and the combination of Metal Base and Door Casing as shown, has met with considerable favor among architects and contractors.

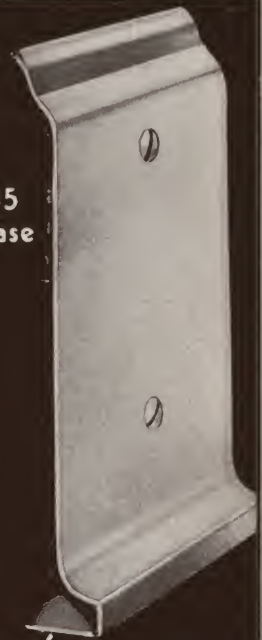
No. 5 1-inch Oval Head Wood Screws are furnished for fastening metal base to wood grounds. Holes for attaching base to grounds are punched at the factory but holes for attaching fittings are punched on the job.



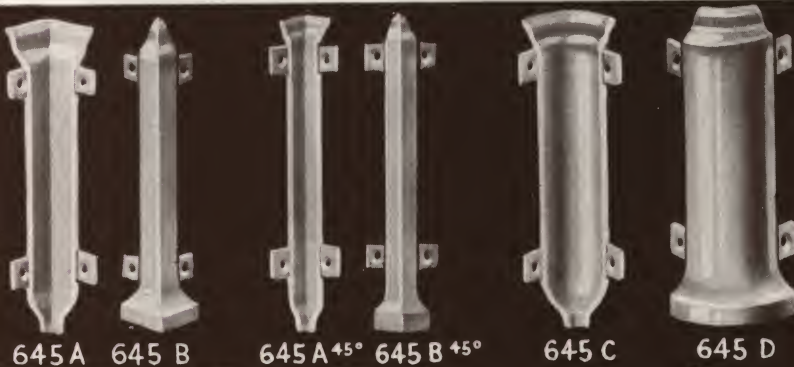
Fittings are furnished for 4-inch and 6-inch sizes but there are no fittings for 2½-inch size, which is mitered on the job.



No. 645 Metal Base



Installation of No. 645



645 A 645 B 645 A 45° 645 B 45° 645 C 645 D



645 E 645 F 645 H 645 J

FOUR-INCH AND SIX-INCH FITTINGS FOR NO. 645

- No. 645-A Square. Inside cast iron corner.
- No. 645-B Square. Outside cast iron corner.
- No. 645-A 45°. Inside corner, 45° angle.
- No. 645-B 45°. Outside corner, 45° angle.
- No. 645-C ¾-inch radius. Inside cast iron corner.
- No. 645-D ¾-inch radius. Outside cast iron corner.
- No. 645-E 1½-inch radius. Inside cast iron corner.
- No. 645-F 1½-inch radius. Outside cast iron corner.
- No. 645-H Right End. End stop cast iron.
- No. 645-J Left End. End Stop cast iron.

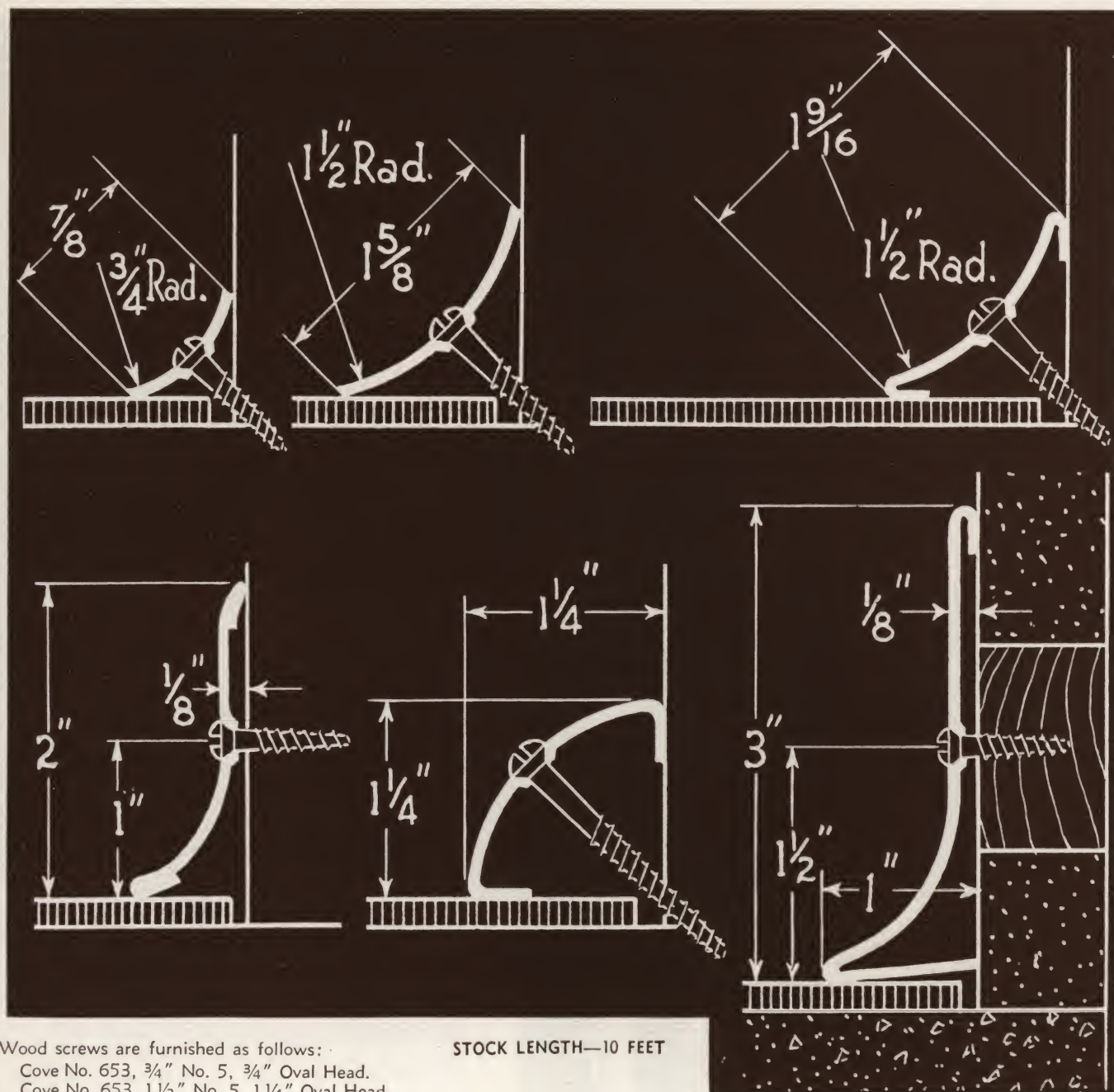
METAL COVE MOULDS

MILCOR

Many uses will be found for these types of Coves and Moulds. All of them are removable, quickly installed and moderate in cost. Frequently they are used in connection with wooden base already installed. They are especially adapted for use with wood floors but are equally well suited to be used over linoleum or carpet.

Cove No. 653, with both $\frac{3}{4}$ -inch and $1\frac{1}{2}$ -inch radius, are furnished in 20 gauge steel with gray priming coat. Coves No. 654, 655, in both 2 and 3-inch sizes, and Nos. 657 and 656 are furnished in 24 gauge steel. All coves and Moulds are also made in brass, aluminum and stainless steel, on order.

Fittings are furnished for Cove Moulds Nos. 654 and 655. Other Coves are mitered on the job.



Wood screws are furnished as follows:

STOCK LENGTH—10 FEET

- Cove No. 653, $\frac{3}{4}$ " No. 5, $\frac{3}{4}$ " Oval Head.
- Cove No. 653, $1\frac{1}{2}$ " No. 5, $1\frac{1}{4}$ " Oval Head.
- Cove No. 655, 2" and 3" No. 5, 1" Oval Head.
- Cove No. 657, No. 5, 1" Oval Head.
- Coves Nos. 654 and 656—No. 5, $1\frac{1}{4}$ " Oval Head.

DIAGRAMS ACTUAL SIZE

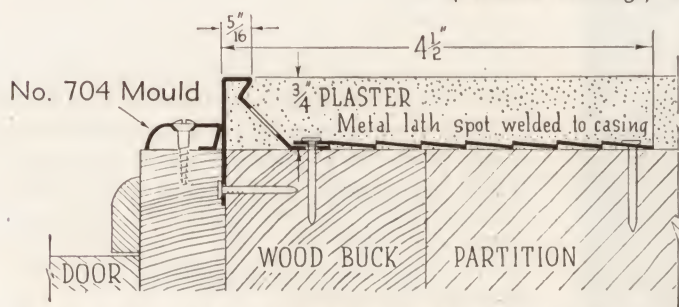
CORNER GROUNDS AND SPECIAL MOULDS

CORNER GROUNDS NO. 65 WITH AND WITHOUT EXPANSION WING

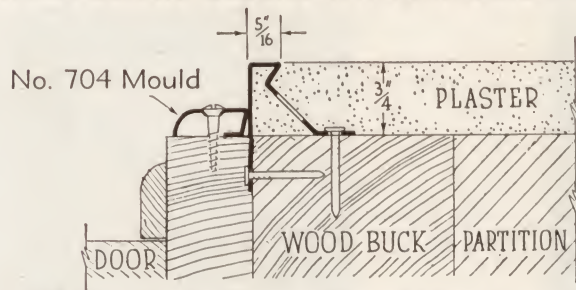
Diagrams give dimensions and show application of the No. 65 Corner Grounds, both with and without Expansion Wing attached. These Grounds are often used in connection with the Casing Moulds illustrated below.

Made from 26 and 24 gauge steel in standard lengths of 6, 7, 7½, 8, 9, 10 and 12 feet.

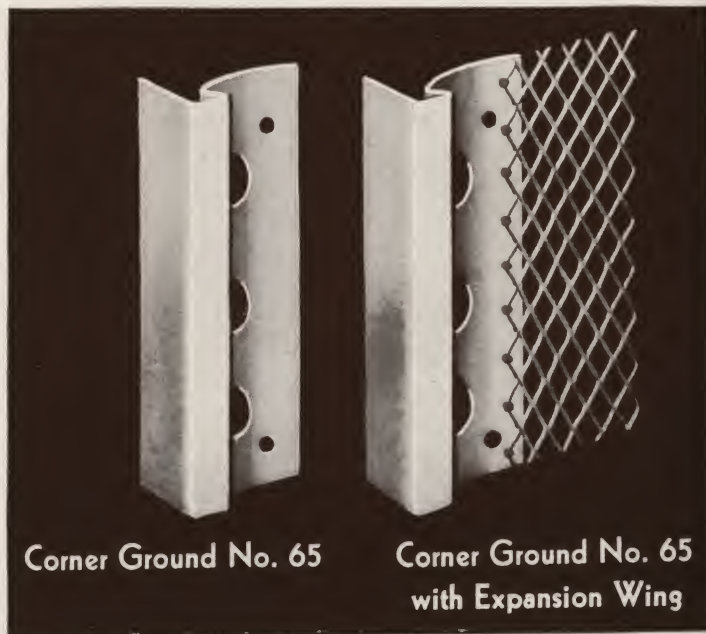
These Corner Grounds are sanitary, easily installed and low priced, and are frequently used in apartment buildings, office buildings, hotels, schools and public buildings.



No. 65 CORNER GROUND WITH EXPANSION WING

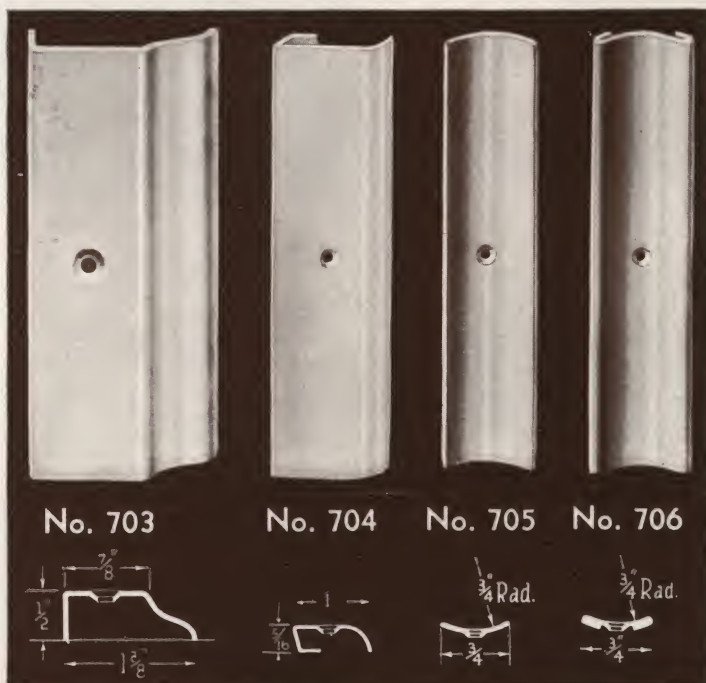


No. 65 CORNER GROUND WITHOUT EXPANSION WING



Corner Ground No. 65

Corner Ground No. 65
with Expansion Wing



No. 703

No. 704

No. 705

No. 706

SPECIAL MOULDS FOR CASINGS, WINDOW STOOLS, ETC.

The merit of these Moulds lies in the fact that they are a separate unit from the Casing and consequently building vibration is broken up and sudden jars from slamming of doors are not transmitted to the plaster.

Architects will find many applications for these moulds in connection with metal casings to make a more finished installation.

MOULD SPECIFICATIONS

No. 703 Mould for Casings and Window Trim, 20 ga. steel, gray primed, 1 3/8 inch wide—No. 5, 1-inch Oval Head Wood Screws furnished.

No. 704 Casing Mould (may be used as alternative for No. 706 Mould), 24 ga. steel, gray primed, 7/8 inch wide—No. 5, 3/4 inch Oval Head Wood Screws furnished.

No. 705 Casing Mould, 20 ga. steel, gray primed, 3/4 inch wide—No. 5, 3/4 inch Oval Head Wood Screws furnished.

No. 706 Casing Mould (generally used with Casings Nos. 136, 137, 138 and 141), 24 ga. steel, gray primed, 3/4 inch wide—No. 5, 3/4 inch Oval Head Wood Screws furnished.

SCREW HOLES SPACED 11 INCHES ON CENTERS IN ALL MOULDS.

STANDARD LENGTHS: 6, 7, 7½, 8, 9, 10 AND 12 FEET.

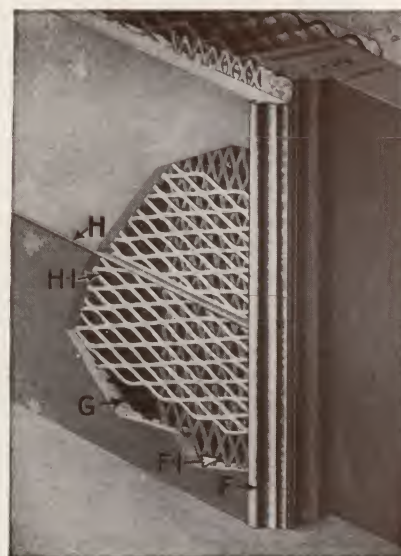
MILCOR EXPANSION CASINGS...

MILCOR



Milcor Expansion Door and Window Casings add a pleasing note of simplicity quite in line with modern trends. The lasting beauty and the practical, durable and firesafe advantages of these materials have for years made them the first choice of many architects and contractors.

The distinctive feature of Milcor Expansion Casings is the expanded metal wing which provides a secure bond and key for the plaster around doors and windows and other wall openings. Casings Nos. 4, 6, 8 and 9 have the expanded metal wing as an integral part of the nose of the casing.



MITER CORNERS AND CLIPS FOR CASINGS

One-piece Miters



One-piece Miters for Expansion Casings No. 4, No. 6 and No. 9 for miter-joint reinforcement. Slip inside the casing. Stamped in one piece from galvanized sheet steel. Weight 80 lbs. per M.



CASING CLIP NO. 2

The phantom view above shows Milcor Expansion Casing Clip No. 2 which can be used with all Milcor Casings and permits the nail to be placed where desired.



EXPANSION CASING PATENT LOCKING CLIP

The Milcor Casing Clip locks Casings firmly to the jamb. Casings are punched with $\frac{7}{8}$ -inch round holes, 3 in. on center. Round-head $\frac{3}{4}$ -in. No. 10 or No. 12 screws are driven into the wood jamb customarily 12 in. apart to coincide with casing punchings with heads projecting $\frac{1}{8}$ in. The casing is slipped over the screw heads properly aligned and nailed to the buck. Clips are then slipped between the screw head and casing and driven home.

Clips stamped in one piece from galvanized sheet steel. Weight, 15 lbs. per M. Packed in cartons.

MILCOR CASINGS

NO. 4 QUARTER ROUND
NO. 6 OGEE
NO. 8 OGEE
NO. 9 SPECIAL QUARTER ROUND
NOS. 60 AND 66 SQUARE

The flush type junction of wall and casing not only insures a sanitary finish, easy to clean, with no cracks to become clogged with dirt, but also provides an air tight feature that eliminates the possibility of cold air coming into the room. There can be no warping or shrinking such as often occurs when wood casings are used.

SPECIFICATION DATA

DESIGNS:

Made in six designs—No. 4 Quarter Round; No. 6—O. G.; No. 8—O. G.; No. 9, Special Quarter Round, and Styles Nos. 60 and 66, as shown in cross sections above.

Styles Nos. 60 and 66 are also made without Expansion Wings in both 20 and 24 gauge metals, with $\frac{1}{2}$, $\frac{5}{8}$ and $\frac{3}{4}$ -inch grounds.

MATERIALS

Sheet Steel Galvanized—Nos. 4, 6, 8 and 9 cut from 24-gauge sheets. Nos. 60 and 66 cut from 20 and 24-gauge sheets.

Inland Pure Iron, Armco Ingot or Toncan Iron Galvanized—Cut from 24-gauge sheets.

Pure Zinc—Cut from No. 11 sheets.

Cold Rolled Copper—Cut from 16-oz. sheets.

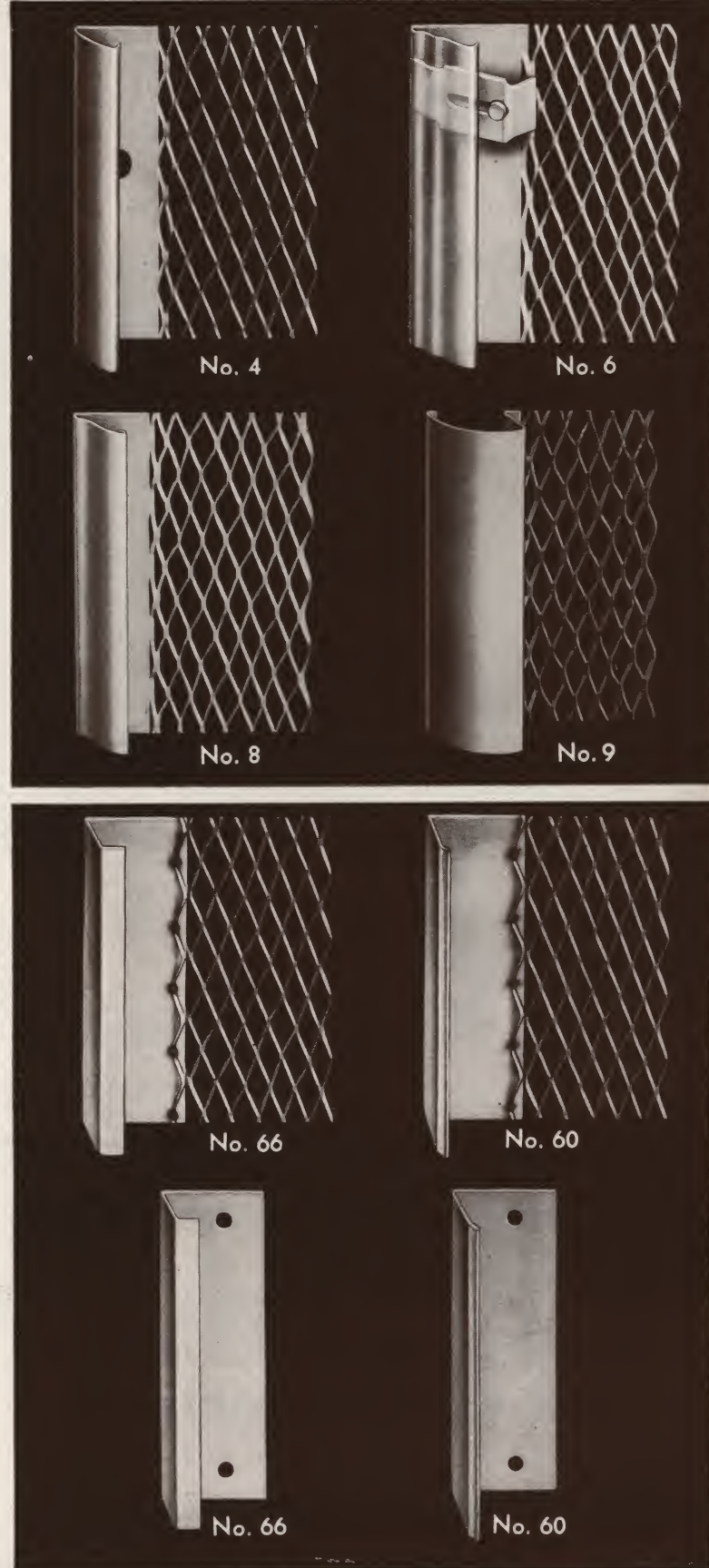
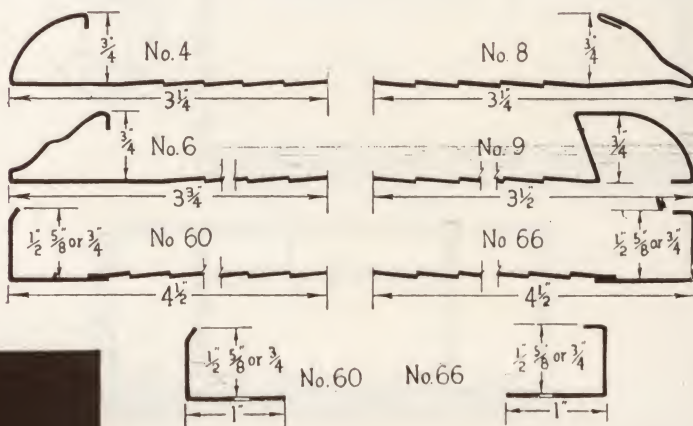
LENGTHS AND WEIGHTS

7, 7½, 8, 9, 10 and 12 ft. long. Weight of designs No. 4, Quarter Round, No. 6—O. G.; No. 8—O. G.; and No. 9, Special Quarter Round—200 lbs. per 500 lin. ft. crated.

WEIGHTS OF STYLES

LBS. PER 1000 LINEAL FEET

	24-Gauge	20-Gauge
No. 60 (with Expansion Wings)	310	400
No. 66 (with Expansion Wings)	310	400
No. 60 (without Expansion Wings)	190	280
No. 66 (without Expansion Wings)	190	280



METAL BLACKBOARD MOULDS NOS. 723 AND 724

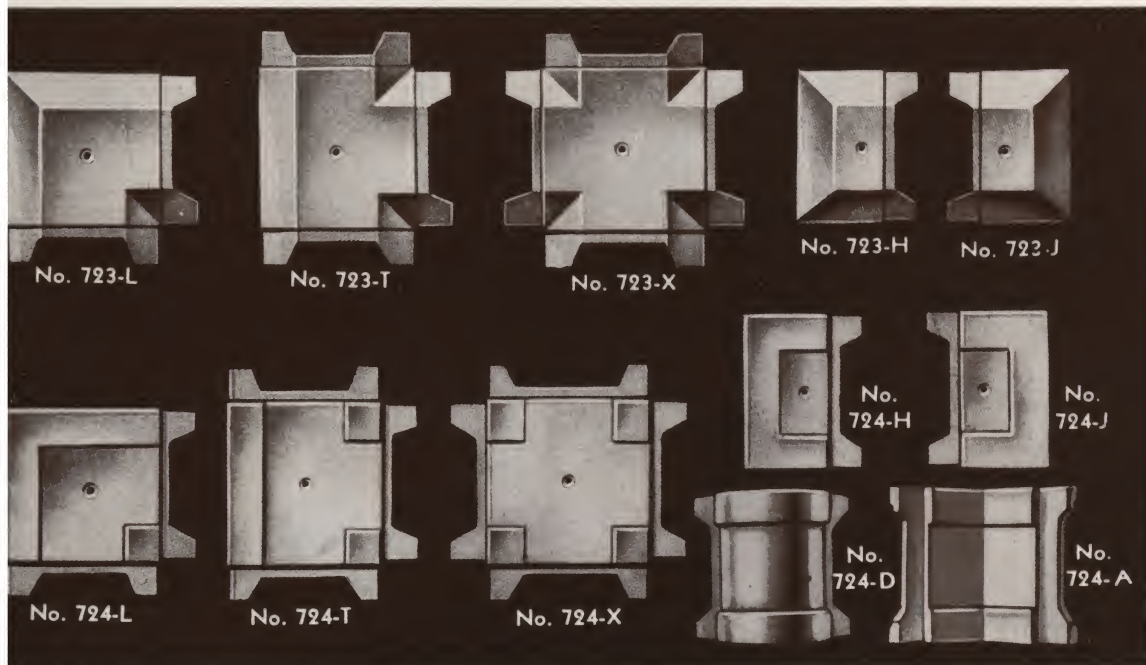
MILCOR

The two types of Blackboard Mould illustrated here will be found equally satisfactory. Almost any blackboard design can be made with these Moulds and the Fittings which accompany them. Chart below shows number of practical blackboard designs.

Made from 20 gauge steel, gray primed, and furnished in 10 foot lengths. Wood Screws furnished as follows:

For No. 723 Mould, No. 5, 1-inch Oval Head Screws

For No. 724 Mould, No. 8, $\frac{3}{4}$ -inch Round Head Screws



FITTINGS

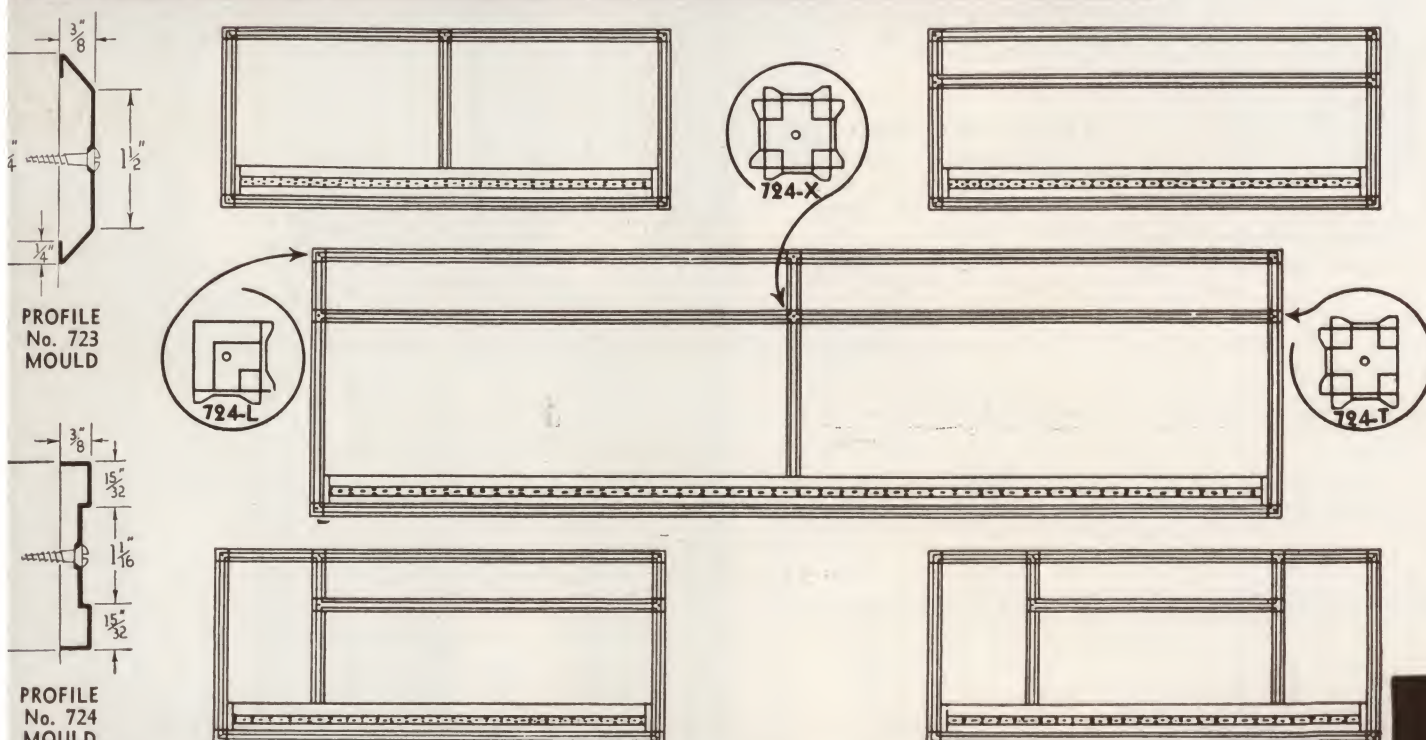
FOR No. 723 BLACKBOARD MOULD

No. 723-L Corner Fitting.
No. 723-T "T" Fitting.
No. 723-X Cross Fitting.
No. 723-H Right End Stop.
No. 723-J Left End Stop.

FITTINGS

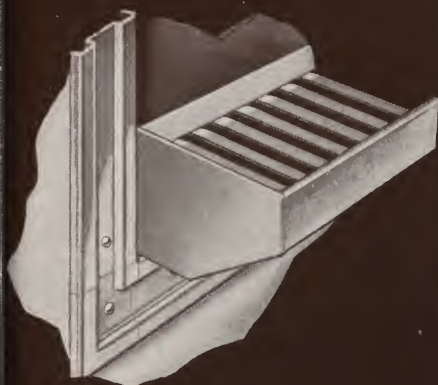
FOR NO. 724 BLACKBOARD MOULD

No. 724-L Corner Fitting.
No. 724-T "T" Fitting.
No. 724-X Cross Fitting.
No. 724-H Right End Stop.
No. 724-J Left End Stop.
No. 724-D Outside Corner, $\frac{3}{4}$ round.
No. 724-A Inside Corner, Square.



METAL CHALK TROUGHS NOS. 735 AND 734

No. 735 CHALK TROUGH



The two styles of Chalk Troughs, Nos. 735 and 734, are equally practical. A selection of one or the other depends upon the appearance desired. They are interchangeable with Blackboard Moulds Nos. 723 and 724 shown on page 36.

Made from 24 gauge steel, gray primed, and furnished in 6, 8 and 10 foot lengths. No. 5, $\frac{3}{4}$ -inch Oval Head Wood Screws furnished for attaching upper flange to wood grounds.

Right and Left End Stops are attached with machine screws.

FITTINGS FOR NO. 734 CHALK TROUGH

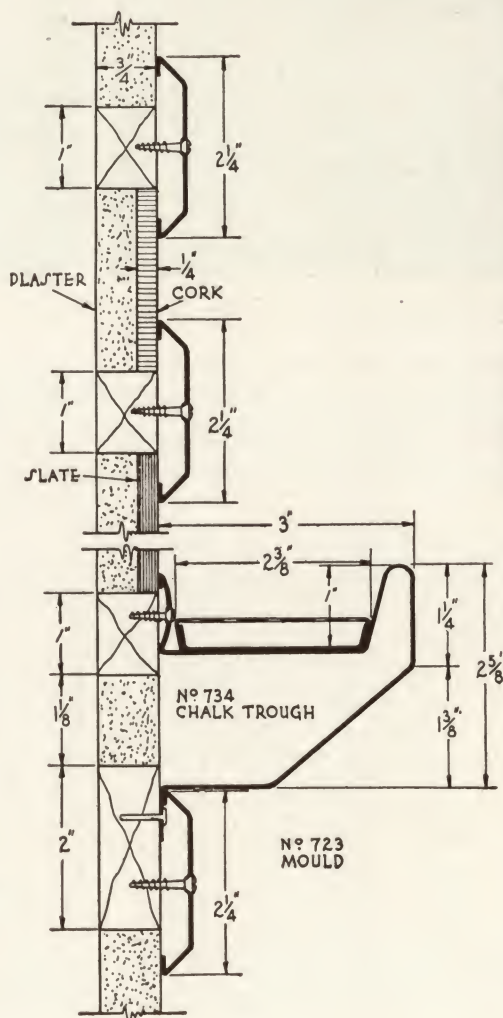
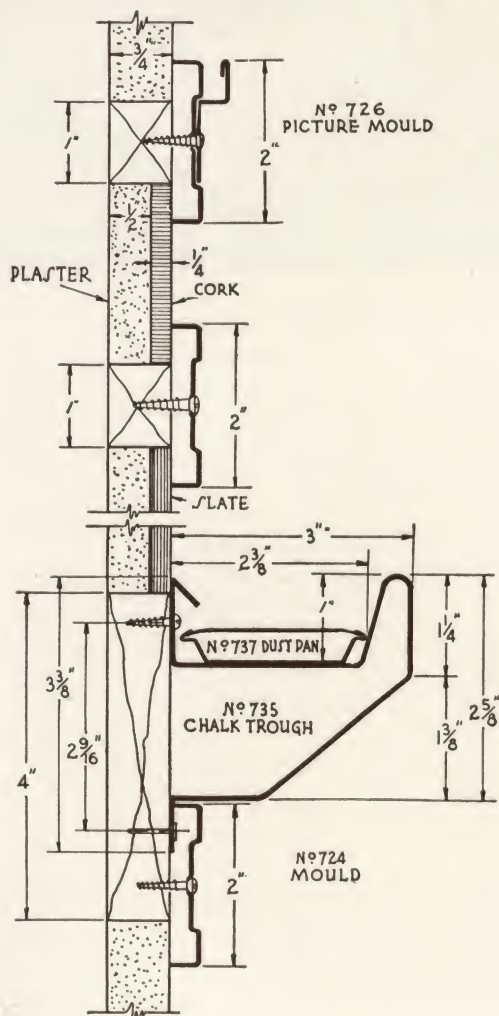
No. 734-H. Right End Stop.
No. 734-J. Left End Stop.

FITTINGS FOR NO. 735 CHALK TROUGH

No. 735-H. Right End Stop.
No. 735-J. Left End Stop.



No. 734 CHALK TROUGH



734-H



734-J

No. 735
Right and Left End
Stops are same as
No. 734 End Stops

MILCOR EXPANDED AND FLAT EXPANDED METAL

MILCOR

Expanded Metal can be easily handled and worked. It has great strength and possesses adaptability for extensive use in many types of construction.



USES FOR EXPANDED METAL

Window, Door and Skylight Guards—Machinery Guards—Open Partitions—Concrete Reinforcement for Doors, Walls, Roof Slabs, Tanks, Etc.—Treads and Walkways, Air Conditioning Grilles—Station Platform Guards—Electric Heater Grids—Museum Guards—Ventilator Screens—Rubbish Burners—Cages and Runways—Portable Fence—Storage Bins.

FLAT EXPANDED METAL

A distinct innovation for a wide number of uses where heretofore wire mesh, or wire rods and perforated metal only were available. Milcor Flat Expanded Metal is cut, expanded and flattened from single sheets of steel, making it exceptionally strong and rigid. The diamond mesh pattern is uniform and the strands are free from burrs or roughness.

EXPANDED METAL

Designation	Weight in lbs. Per Sq. Ft.		Width of Sheet	Length of Sheet
	Plain	Galv.		
1/2 inch No. 26..	.26		6'0", 4'0" and 8'0"	8'0"
1/2 inch No. 24..	.35		6'0", 4'0" and 8'0"	8'0"
1/2 inch No. 22..	.43		6'0", 4'0" and 8'0"	8'0"
1/2 inch No. 20..	.53		6'0", 4'0" and 8'0"	8'0"
1/2 inch No. 18..	.74	.78	6'0" also 4'0"	8'8"
3/4 inch No. 16..	.50	.53	6'6" only	8'0"
*3/4 inch No. 13..	.80	.84	6'0" also 4'0"	8'0"
3/4 inch No. 10..	1.19	1.25	4'0" only	8'0"
3/4 inch No. 9..	1.80	1.89	4'0" only	8'0"
1 1/2 inch No. 13..	.60	.63	6'0" also 4'0"	8'0"
†1 1/2 inch No. 10..	.79	.84	6'0" also 4'0"	8'0"
1 1/2 inch No. 9..	1.19	1.25	6'0" only	8'0"

*Also furnished from stock 6' x 10', 6' x 12'. †Also furnished from stock 4' x 12', 6' x 10', 6' x 12'; (Sheets of special size by arrangement).

FLAT EXPANDED METAL

Style Number	Weight in Pounds Per Sq. Ft.	Width of Sheet	Length of Sheet
1/2 inch No. 18-20....	.70	3' or 4'	8'
1/2 inch No. 16-18....	1.00	3' or 4'	8'
3/4 inch No. 16-18....	.61	3' or 4'	8'
3/4 inch No. 14-16....	.81	3' or 4'	8'
1 1/2 inch No. 16-18....	.37	3' or 4'	8'
1 1/2 inch No. 14-16....	.48	3' or 4'	8'
3/4 inch No. 9-11....	1.69	3' or 4'	8'
1 1/2 inch No. 9-11....	1.13	3' or 4'	8'

The first digit of the Style Number is the nominal opening the short way of the diamond or the direction of the width of the sheet; the second digit indicates approximate gauge of plate from which the unflattened expanded metal was cut; the third digit indicates approximate gauge of mesh after flattening.

PRODUCTS

for CONCRETE REINFORCING . . . WINDOW GUARDS . . . SKYLIGHT GUARDS FENCING . . . MACHINERY GUARDS and INDUSTRIAL PARTITIONS

PARTITIONS

Milcor Expanded Metal is particularly suitable for building partitions because it is strong and durable . . . compact and economical. It permits light, airy enclosures . . . and is **Firesafe**. Milcor Partition Bar Accessories are designed for quick construction.

DOOR AND WINDOW GUARDS

Guards for windows and doors can be quickly and economically constructed with Milcor Expanded Metal and Accessory Framing Products. Frame Bar, Frame Bar Corners, Curved Hinges, Milcor Clips, facilitate rapid erection.

SKYLIGHT GUARDS

Milcor Expanded Metal has no equal for use in constructing Skylight Guards. Its strength and rigidity provide great protection . . . the open mesh allows for maximum passage of light and air . . . and the erection is simple and easy with the aid of Milcor Frame Bars, Frame Bar Corners, and Accessories.

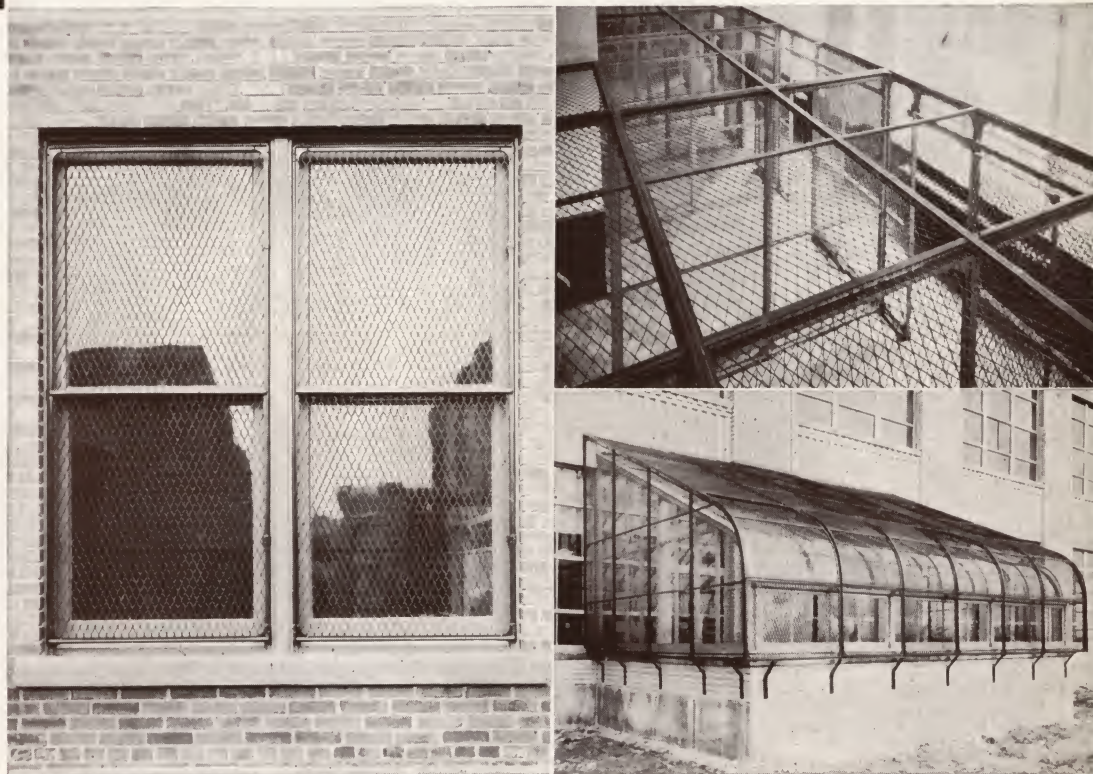
MACHINERY GUARDS

Milcor Expanded Metal is especially designed for and adapted to the making of Safety Guards for machinery, and is considered standard for this work. Due to the process of manufacture, it is so strong that it will withstand any amount of vibration and stress. The open mesh, free from burrs, permits easy cleaning with a stiff wire brush, from the outside. The sheets are fabricated in standard widths for economical cutting . . . and can be bent and formed to fit any particular machine.

THE MOST PRACTICAL MATERIAL FOR FACTORY PARTITIONS AND GUARDS OF ALL KINDS

Made from a single sheet, Milcor Expanded Metal has great strength and rigidity . . . far greater than welded or woven fabrics. The strands are clean and smooth . . . there are no burrs or rough spots to interfere with the erecting of Expanded Metal. The sheets can be cut in any direction to form pieces of varying sizes . . . the strands will not ravel or loosen. Milcor Expanded Metal can be readily formed in any desired shape for countless purposes with surprising economy.

If you are interested in a special fabrication of Milcor Expanded Metal, write the Milcor Engineering Department for the solution of specific problems.



Illustrations show adaptability for Milcor Expanded Metal for Window Guards, Open Partitions, and Conservatory Guards.

MILCOR EXPANDED METAL REINFORCING MESHES FOR CONCRETE WORK

Style Number	Cross Sectional Area	Weight, Pounds Per Sq. Ft.	Width of Sheets Short Way of Diamonds	Size of Diamond	Length of Sheets Mill Shipment
3-13-075	.075	.25	6' 4"	3"x8"	8'-10'-12'-16'
3-13-10	.10	.34	7' 0"	3"x8"	8'-10'-12'-16'
3-13-125	.125	.42	5' 8"	3"x8"	8'-10'-12'-16'
3-9-15	.15	.51	7' 0"	3"x8"	8'-10'-12'-16'
3-9-175	.175	.60	6' 0"	3"x8"	8'-10'-12'-16'
3-9-20	.20	.68	5' 3"	3"x8"	8'-10'-12'-16'
3-9-25	.25	.85	4' 2 1/2"	3"x8"	8'-10'-12'-16'
3-9-30	.30	1.02	7' 0"	3"x8"	8'-10'-12'-16'
3-9-35	.35	1.19	6' 0"	3"x8"	8'-10'-12'-16'
3-4-40	.40	1.36	4' 7"	3"x8"	8'-12'-16'
3-4-45	.45	1.53	4' 1"	3"x8"	8'-12'-16'
3-4-50	.50	1.70	7' 4"	3"x8"	8'-12'-16'
3-4-55	.55	1.87	6' 8"	3"x8"	8'-12'-16'
3-4-60	.60	2.04	6' 1 1/2"	3"x8"	8'-12'-16'

NOTE: When ordering, specify style number, length of sheets wanted and quantity of sheets required.

MILCOR MANUAL

FIREPROOF BUILDING PRODUCTS



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MILCOR STEEL CO.

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MILCOR MANUAL

FIREPROOF BUILDING PRODUCTS



MILCOR STEEL COMPANY